



# Public Water Supply Supervision Program

## Annual Report FY-16

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**Dr. Rafael Rodríguez Mercado, Secretary of Health**  
**Mrs. Mayra Toro, Environmental Secretary**  
**Eng. Javier O. Torres, Director**  
**Drinking Water Division**

March 31, 2017

# **Annual Report**

## **FISCAL YEAR 2016**

October 1st, 2015 – September 30, 2016

### **PUERTO RICO DRINKING WATER DIVISION**

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FECHA	SISTEMAS	PWS_ID	VIOLACION	RESULTADO	NORMA
10/01/2015	JUNCOS - CEIBA SUR	PR0005166	b	AGUDA	
10/01/2015	JUNCOS - CEIBA SUR	PR0005166	b	8.00	5%
10/01/2015	UTUADO URBANO	PR0002702	b	2.00	1
10/01/2015	AIBONITO LA PLATA	PR0004545	b	3.00	1
11/01/2015	EL JAPONES	PR0003425	b	2.00	1
11/01/2015	CIMARRONA	PR0003832	b	3.00	1
01/01/2016	COCOS	PR0004895	b	3.00	1
02/01/2016	SAN SEBASTIAN	PR0003303	b	AGUDA	

**SISTEMAS PRASA  
INTERMITENTES MR-BACT. FY-16  
TOTAL=6**

MUNICIPIO	PWS_ID	SISTEMAS	VIOLACION
CONOVANAS	PR0002611	CUBUY	MR-BACT.
SANTA ISABEL	PR0003904	SANTA ISABEL URBANO	MR-BACT.
PENUELAS	PR0004324	PENUELAS	MR-BACT.
ADJUNTAS	PR0004494	GUILARTE	MR-BACT.
PONCE	PR0004514	HOGARES SEGUROS	MR-BACT.
AIBONITO	PR0004555	CUYON	MR-BACT.

**SISTEMAS PRASA**  
**VIOLACIONES MR-BACT. FY-16**  
**TOTAL=9**

MUNICIPIO	FECHA	PWS_ID	SISTEMAS	VIOLACION
AIBONITO	10/01/2015	PR0004555	CUYON	MR-BACT.
CONOVANAS	10/01/2015	PR0002611	CUBUY	MR-BACT.
SANTA ISABEL	04/01/2016	PR0003904	SANTA ISABEL URBANO	MR-BACT.
PENUELAS	04/01/2016	PR0004324	PENUELAS	MR-BACT.
ADJUNTAS	04/01/2016	PR0004494	GUILARTE	MR-BACT.
PENUELAS	05/01/2016	PR0004324	PENUELAS	MR-BACT.
PONCE	06/01/2016	PR0004514	HOGARES SEGUROS	MR-BACT.
ADJUNTAS	07/01/2016	PR0004494	GUILARTE	MR-BACT.
SANTA ISABEL	05/01/2016	PR0003904	SANTA ISABEL URBANO	MR-BACT.

**SISTEMAS PRASA**  
**INTERMITENTES EN MCL- TURB**  
**TOTAL=5**  
**FY-16**

<b>PWS-ID</b>	<b>SISTEMAS</b>	<b>MUNICIPIO</b>
PR0002591	METROPOLITANO	SAN JUAN
PR0004324	GUAYANES	PENUELAS
PR0004945	LAS BOCAS	BARRANQUITAS
PR0005166	CEIBA SUR	JUNCOS
PR0005286	MAIZALES	NAGUABO



**RESUMEN DE RESULTADOS BACTERIOLOGICOS**  
**MUESTRAS TOMADAS POR PRASA FY-16**  
**SISTEMAS PRASA**

FECHA	REGION	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO
Oct-15	SAN JUAN	321	5	1.56%
	BAYAMON	127	0	0.00%
	ARECIBO	804	6	0.75%
	MAYAGUEZ	473	4	0.85%
	PONCE	479	0	0.00%
	GUAYAMA	342	4	1.17%
	HUMACAO	460	5	1.09%
	TOTAL DEL MES	3006	24	0.80%
	TOTAL ACUMULADO	0	0	0.00%
	TOTAL ACTUAL	3006	24	0.80%
Nov-15	SAN JUAN	313	2	0.64%
	BAYAMON	129	1	0.78%
	ARECIBO	803	9	1.12%
	MAYAGUEZ	454	1	0.22%
	PONCE	476	3	0.63%
	GUAYAMA	344	4	1.16%
	HUMACAO	462	4	0.87%
	TOTAL DEL MES	2981	24	0.81%
	TOTAL ACUMULADO	3006	24	0.80%
	TOTAL ACTUAL	5987	48	0.80%
Dec-15	SAN JUAN	315	2	0.63%
	BAYAMON	130	0	0.00%
	ARECIBO	749	1	0.13%
	MAYAGUEZ	462	4	0.87%
	PONCE	475	1	0.21%
	GUAYAMA	329	0	0.00%
	HUMACAO	446	0	0.00%
	TOTAL DEL MES	2906	8	0.28%
	TOTAL ACUMULADO	5987	48	0.80%
	TOTAL ACTUAL	8893	56	0.63%
Jan-16	SAN JUAN	307	0	0.00%
	BAYAMON	130	1	0.77%
	ARECIBO	811	3	0.37%
	MAYAGUEZ	476	3	0.63%
	PONCE	477	1	0.21%
	GUAYAMA	354	7	1.98%
	HUMACAO	450	1	0.22%
	TOTAL DEL MES	3005	16	0.53%
	TOTAL ACUMULADO	8893	56	0.63%
	TOTAL ACTUAL	11898	72	0.61%

**RESUMEN DE RESULTADOS BACTERIOLOGICOS**  
**MUESTRAS TOMADAS POR PRASA FY-16**  
**SISTEMAS PRASA**

FECHA	REGION	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO
Feb-16	SAN JUAN	318	3	0.94%
	BAYAMON	125	0	0.00%
	ARECIBO	741	4	0.54%
	MAYAGUEZ	477	4	0.84%
	PONCE	481	4	0.83%
	GUAYAMA	342	4	1.17%
	HUMACAO	455	0	0.00%
	TOTAL DEL MES	2939	19	0.65%
	TOTAL ACUMULADO	11898	72	0.61%
	TOTAL ACTUAL	14837	91	0.61%
Mar-16	SAN JUAN	312	2	0.64%
	BAYAMON	125	0	0.00%
	ARECIBO	782	4	0.51%
	MAYAGUEZ	466	1	0.21%
	PONCE	469	0	0.00%
	GUAYAMA	345	3	0.87%
	HUMACAO	447	0	0.00%
	TOTAL DEL MES	2946	10	0.34%
	TOTAL ACUMULADO	14837	91	0.61%
	TOTAL ACTUAL	17783	101	0.57%
Apr-16	SAN JUAN	307	2	0.65%
	BAYAMON	127	1	0.79%
	ARECIBO	793	2	0.25%
	MAYAGUEZ	464	0	0.00%
	PONCE	468	7	1.50%
	GUAYAMA	325	6	1.85%
	HUMACAO	447	1	0.22%
	TOTAL DEL MES	2931	19	0.65%
	TOTAL ACUMULADO	17783	101	0.57%
	TOTAL ACTUAL	20714	120	0.58%
May-16	SAN JUAN	319	4	1.25%
	BAYAMON	127	0	0.00%
	ARECIBO	746	0	0.00%
	MAYAGUEZ	465	2	0.43%
	PONCE	490	7	1.43%
	GUAYAMA	337	2	0.59%
	HUMACAO	447	0	0.00%
	TOTAL DEL MES	2931	15	0.51%
	TOTAL ACUMULADO	20714	120	0.58%
	TOTAL ACTUAL	23645	135	0.57%

**RESUMEN DE RESULTADOS BACTERIOLOGICOS**  
**MUESTRAS TOMADAS POR PRASA FY-16**  
**SISTEMAS PRASA**

FECHA	REGION	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO
Jun-16	SAN JUAN	319	3	0.94%
	BAYAMON	128	1	0.78%
	ARECIBO	779	5	0.64%
	MAYAGUEZ	471	3	0.64%
	PONCE	479	1	0.21%
	GUAYAMA	330	1	0.30%
	HUMACAO	457	3	0.66%
	TOTAL DEL MES	2963	17	0.57%
	TOTAL ACUMULADO	23645	135	0.57%
	TOTAL ACTUAL	26608	152	0.57%
Jul-16	SAN JUAN	313	2	0.64%
	BAYAMON	125	0	0.00%
	ARECIBO	767	4	0.52%
	MAYAGUEZ	472	5	1.06%
	PONCE	470	0	0.00%
	GUAYAMA	332	1	0.30%
	HUMACAO	473	9	1.90%
	TOTAL DEL MES	2952	21	0.71%
	TOTAL ACUMULADO	26608	152	0.57%
	TOTAL ACTUAL	29560	173	0.59%
Aug-16	SAN JUAN	307	0	0.00%
	BAYAMON	138	3	2.17%
	ARECIBO	767	4	0.52%
	MAYAGUEZ	484	7	1.45%
	PONCE	483	4	0.83%
	GUAYAMA	348	6	1.72%
	HUMACAO	465	5	1.08%
	TOTAL DEL MES	2992	29	0.97%
	TOTAL ACUMULADO	29560	173	0.59%
	TOTAL ACTUAL	32552	202	0.62%
Sep-16	SAN JUAN	307	2	0.65%
	BAYAMON	125	1	0.80%
	ARECIBO	760	4	0.53%
	MAYAGUEZ	459	3	0.65%
	PONCE	484	6	1.24%
	GUAYAMA	328	2	0.61%
	HUMACAO	449	3	0.67%
	TOTAL DEL MES	2912	21	0.72%
	TOTAL ACUMULADO	32552	202	0.62%
	GRAN TOTAL	35464	223	0.63%







## ATTACHMENTS

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ATTACHMENT NO. 1	DRINKING WATER DIVISION ORGANIZATION FLOWCHART
ATTACHMENT NO. 2	PUBLIC WATER SYSTEMS DISTRIBUTION - 2016
ATTACHMENT NO. 3	SUMMARY OF THE ACTIVITIES CARRIED OUT BY THE PWSS REGIONAL AND CENTRAL OFFICE COORDINATORS
ATTACHMENT NO. 4	COMPARATIVE SUMMARY REPORT CONCERNING THE PROGRAM'S PERFORMANCE ACTION
ATTACHMENT NO. 5	PRDOH SURVEILLANCE MONITORING
ATTACHMENT NO. 6	PRASA - BACTI AND TURBIDITY SYSTEMS' VIOLATORS
ATTACHMENT NO. 7	PRASA - BACTERIOLOGY COMPLIANCE MONITORING
ATTACHMENT NO. 8	PRASA – DISINFECTION BY PRODUCTS SYSTEMS' VIOLATORS
ATTACHMENT NO. 9	NON PRASA - BACTI SYSTEMS' VIOLATORS
ATTACHMENT NO. 10	LABORATORY CERTIFICATION PROGRAM
ATTACHMENT 11	PARTNERSHIP AGREEMENT UCMR4

*"The SDWA protects public drinking water supplies throughout EPA standards for drinking water quality and various technical and financial programs to ensure drinking water safety."*

## INTRODUCTION

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### Purpose

**Puerto Rico Department of Health (PRDOH)** submits this **Annual Report** to the Environmental Protection Agency (EPA) as part of the federal Safe Drinking Water Act (SDWA) state primacy requirements. This report contains the main activities performed by the **Puerto Rico Drinking Water Division** throughout the Federal Fiscal Year'16 (FFY-16: October 2015 thru September 2016).

### Overall

This document is divided in two (2) main sections. First section, covers activities related to the **Public Water Supply Supervision (PWSS) Program** and the second section, contains the main activities performed by the **Drinking Water State Revolving Fund (DWSRF) Program**. Both Programs comprises the Drinking Water Division. For PWSS Program, the activities described are related to primacy revision applications and EPA approvals, drinking water regulations, monitoring (compliance and surveillance), compliance determination, enforcement actions, special projects, seminars, trainings, special reports, public participation, and program management, among others activities. For SRF Program, main achievements are described, infrastructure projects and set aside programs are updated. An organization flowchart of the Division is included in Attachment No. 1.

### Public Water Systems (PWS)

As September 2016, a total 457 PWS were in operation and registered in PRDOH inventory. From these, 160 were operated by **Puerto Rico Aqueduct and Sewer Authority (PRASA)** serving 96% of the population and 297 were operated by **Non PRASA** serving 4% of the population.

All 160 PRASA systems are community type systems (CWS). Regarding Non PRASA systems, seven (7) are Transient (T), forty-eight (48) are Non Transient-Non Community (NTNC) and two hundred forty two (242) are community (CWS). See Attachment No. 2 for Puerto Rico 2016 PWS Distribution.

## **STRATEGIC HIGHLIGHTS**

### **1. Amended Settlement Agreement (ASA)**

As part of the enforcement strategies, PRDOH continued with the implementation of the Amended Settlement Agreement (ASA) between PRDOH and PRASA. A total of nine (9) joint motions were filed and approved by Court. Eight (8) of them were related to Disinfectants/Disinfection Byproducts Rule (D/DBPR) with Corrective Action Plans, previously approved by PRDOH, that becomes part of the ASA. One (1) joint motion was related to penalty deposit ASA account named as PLICA.

### **2. Non PRASA Strategy**

Revised Enforcement and Compliance Strategy for Non-PRASA Community Water Systems continued to be the main enforcement tool following the objectives established in the Strategy to bring those systems into compliance. Several approaches are being used: connecting the systems to nearest PRASA systems, installations of disinfection equipment or changing the surface source to a ground one, among others.

### **3. State Revolving Fund**

DWSRF approved PRASA's request for the redistribution of funds corresponding to FY 2010 to FY 2014 financial agreements. These redistribution allowed PRDOH to achieved disbursement of approximately \$25,000,000 dollars for infrastructure projects meetings the requirements of the Unliquidated Obligations Reduction Strategy (ULO's) in the expeditious way of use of monies.

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## 1.0 PUBLIC WATER SUPPLY SUPERVISION PROGRAM

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### A. PRIMACY REQUIREMENTS

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EPA requires that a PWSS Program reviews and adopts all new regulations in order for the State to obtain or retain the primacy of the drinking water regulations, as established in §1413 of SDWA and 40 Code of Federal Regulations (C.F.R.) Part 142. By FFY'16, the PWSS Program were involved with:

#### **Revised Total Coliform Rule (RTCR)**

On April 1<sup>st</sup>, 2016, PWSS Program begun the implementation of the Revised Total Coliform Rule (RTCR, 78 Federal Register 10269, Vol.78, No. 30 of February 13, 2013). Our major efforts were directed to the revision of the siting plans. All PWS had to develop a written sample siting plan that identifies all sampling sites (routine and repeat samples) and a sample collection schedule representative of water throughout the distribution system no later than March 31, 2016. These plans were subject to State review and revision.

At this moment, all RTCR new requirements are fully implemented. Rule compliance determination and enforcement are in place. However, we are expecting to update the State Drinking Water Information System (SDWIS) software for the corresponding report of RTCR violations and submission to EPA in a quarterly basis reports.

#### **Unregulated Contaminants Monitoring Rule (UCMR)**

Several tasks were performed regarding to UCMR during October 2015 through September 2016; some of them were:

- Monitoring for UCMR Contaminants List 3 were performed on November 2015.

- Collaboration with EPA regarding notification letters for UCMR Contaminants List 3 and other related documentation.
- UCMR Contaminants List 3 results were received from EPA for acknowledge and recordkeeping. See Attachment 11.
- Partnership Agreement for Supporting the Implementation of UCMR Contaminants List 4 was signed on August 26, 2016.
- UCMR Contaminants List 4 Draft State Monitoring Plan for Puerto Rico were reviewed and corrected.
- We started the collection of information to make an UCMR Contaminants List 4 booklet.

## B. PROGRAM MANAGEMENT AND ADMINISTRATION

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The major key elements under the Management and Administration Section were:

- Program administration and supervision were continuously provided to achieve a satisfactory administration of the SDWA.
- Annual Program Work Plan, as well as the development of staff and budget needs, was prepared as part of the original Grant Applications for the FY-16.
- The Private Laboratory Certification Program continued successfully during the FY-16.
- The PWSSP Grant proposal for FY-17 was submitted on April 28, 2016.
- All PRASA and Non PRASA monitoring results were evaluated in order to grant waivers, reduce monitoring frequency, increase monitoring, etc., in accordance with rule requirements.
- The Amended Settlement Agreement (ASA) between PRDOH and PRASA continued been a major enforcement tool for PRASA Systems and the Enforcement and Compliance Strategy for Non-PRASA Community Water Supply Systems for Non PRASA Systems.
- All Program Elements were achieved successfully during FY-16. A summary of the activities carried out by the PWSS Regional and Central Office Coordinators as well as a comparative summary report concerning the Program's performance actions are included in Attachment No. 3 and No. 4, respectively.



## C. ENFORCEMENT RESPONSE POLICY/ENFORCEMENT TARGETING TOOL (ETT)

### ERP Purpose

Enforcement Response Policy (ERP)/Enforcement Targeting Tool (ETT) substituted the existing contaminant by contaminant compliance strategy with one that focuses on the drinking water systems with the most serious or repeated violations. This approach uses a targeting tool/formula as a model for escalating responses to violations in a timely and appropriate response.

This strategy brings the systems with the most significant violations to the top of the list for enforcement actions in the states. The ETT enables the prioritization of the public water (PWS) by assigning each violation a "weight" or number of points based on the assigned threat to public health. Points for each violation of a water system are added to provide a total score for that PWS. A PWS that incurs in a system score of 11 points or greater is considered as in significant noncompliance with the NPDWR and is subject to the appropriate enforcement actions.

### ETT Numbers for FY 16

According to ERP/ETT lists submitted by EPA during FY-16, the total number of systems with score equal or above 11 and total points were describe below:

SYSTEM GROUP	ETT CRITERIA	OCT 15	JAN 16	APR 16	JUL 16
Aqueduct and Sewer Authority (PRASA)	Systems Score $\geq$ 11	44	50	52	48
	Total Points	1349	1520	1497	1600
NON PRASA Private Entity Owned	Systems Score $\geq$ 11	1	2	3	2
	Total Points	60	105	100	93
NON PRASA Community Owned	Systems Score $\geq$ 11	110	117	113	139
	Total Points	5214	5425	5495	5023



## D. SURVEILLANCE ACTIVITIES, ENFORCEMENT AND TECHNICAL ASSISTANCE

### Purpose

As state primary enforcement responsibility, several surveillance activities were performed during this period. Sanitary surveys, inspections, field visits and enforcement are the main tools of the PWSS Program. The following table quantifies the activities by type system. See Attachment No. 4 for more details.

ACTIVITY	PRASA	NON PRASA	TOTAL
SANITARY SURVEYS	48	86	134
INSPECTIONS <sup>1</sup>	383	161	544
FIELD VISITS	86	54	140
TECHNICAL ASSISTANCE	75	368	443
CROSS CONNECTIONS INVESTIGATIONS	0	10	10
CHEMICAL CONTAMINATION INVESTIGATIONS	6	0	6
MICROBIOLOGY CONTAMINATION INVESTIGATIONS	1	0	1
ENFORCEMENT ACTIONS	96	117	213
FOLLOW UP ACTIONS	2439	873	3312
LEGAL NOTIFICATIONS AND BOIL ORDERS	0	2041	2041
COMPLAINTS	15	4	19
MEETINGS	73	78	151

<sup>1</sup> Includes inspections to filtration plants, water distribution tanks and wells.

## E. SURVEILLANCE MONITORING

### Purpose

The state performed a surveillance monitoring on bacteriology and turbidity samples at all PWS. The purpose of this surveillance monitoring is to compare the results with the compliance monitoring performed by the PWS. Drinking water coordinators prepares a monthly samples schedule for PRASA and Non PRASA. These samples are taken by the state certified drinking water sample collectors. Follow up actions are required to PWS if an abnormal result is obtained. The following table details the quantity of the surveillance bacteriology monitoring performed by FY 16. See Attachment No. 5 for more details.

MONTH/YEAR	BACTERIOLOGY SAMPLES TAKEN BY PRDOH		
	PRASA	NON PRASA COMMUNITY	NON PRASA NON COMMUNITY NON TRANSIENT
October 2015	419	112	21
November 2015	326	126	25
December 2015	363	86	11
January 2016	381	122	18
February 2016	434	141	23
March 2016	357	82	14
April 2016	303	101	18
May 2016	436	169	31
June 2016	390	113	20
July 2016	335	95	13
August 2016	416	158	31
September 2016	277	92	10
<b>TOTAL</b>	<b>4,437</b>	<b>1,397</b>	<b>235</b>

As table shows, a total of **4,437** bacteriological analyses were performed by PRDOH on PRASA systems as part of the bacteriology surveillance monitoring program. Out of these, **187** or **4.2%** percent were found positive.

A total of **1,397** bacteriological analyses were performed by PRDOH on Non-PRASA community systems. Out of these, **458** samples or **32.8%** percent were found positive. For Non Transient- Non Community systems, a total of **235** bacteriological analyses were performed. Out of these, **20** samples or **8.5%** were found positive.

Regarding turbidity surveillance monitoring, a total of **526** samples were analyzed for turbidity water samples on PRASA systems and **286** on Non PRASA systems. The following table details the turbidity samples taken per month.

MONTH/YEAR	TURBIDITY SAMPLES TAKEN BY PRDOH		
	PRASA	NON PRASA COMMUNITY	NON PRASA NON COMMUNITY NON TRANSIENT
October 2015	42	33	0
November 2015	41	22	1
December 2015	40	12	0
January 2016	38	40	0
February 2016	40	30	0
March 2016	42	16	1
April 2016	55	24	0
May 2016	51	26	2
June 2016	44	17	0
July 2016	45	16	0
August 2016	43	27	0
September 2016	45	19	0
<b>TOTAL</b>	<b>526</b>	<b>282</b>	<b>4</b>

## F. PRASA COMPLIANCE MONITORING

According to drinking water regulation, all PWS have to conduct a compliance monitoring on regulated parameters to verify the water quality served. Monitoring frequency varies on the regulated parameter, type of system, source, population served, among others criteria.

Regarding coliform sampling, all PWS have to comply with a monthly monitoring based on the population served. Turbidity sampling is required only in filtration plants. By FY-16, the total of PRASA filtration plants was 117. The following table summarizes PRASA compliance during FY-16 for these two main contaminant group.

FY-16 PRASA SUMMARY BACTERIOLOGY AND TURBIDITY COMPLIANCE				
CONTAMINANT GROUP OR RULE REQUIREMENT	NUMBER OF SYSTEMS/FILTRATION PLANTS UNDER RULE	VIOLATION TYPE (MONTHLY COMPLIANCE)	SYSTEMS WITH 4 OR MORE VIOLATIONS DURING FY-16	SYSTEMS WITH 1, 2 OR 3 VIOLATIONS DURING FY-16
Bacteriology (TCR/RTCR)	All systems (160)	Maximum Contaminant Level (MCL)	0	7
		Monitoring/Reporting (MR)	0	6
Turbidity (Interim Enhanced Surface Water Treatment Rule, IESWTR and Long Term 1 Enhanced Surface Water Treatment Rule, LT1ESWTR)	Filtration plants (117)	Treatment Technique (TT)	0	5
		Monitoring/Reporting (MR)	0	0

See Attachment 6 for PRASA systems' name and details on bacteriology and turbidity non compliance. It is important to note that compliance determination for bacteriology contaminant group changed on April 1<sup>st</sup>, 2016.

PRASA compliance bacteriology samples taken according to system population served by month are reflected in the following table.

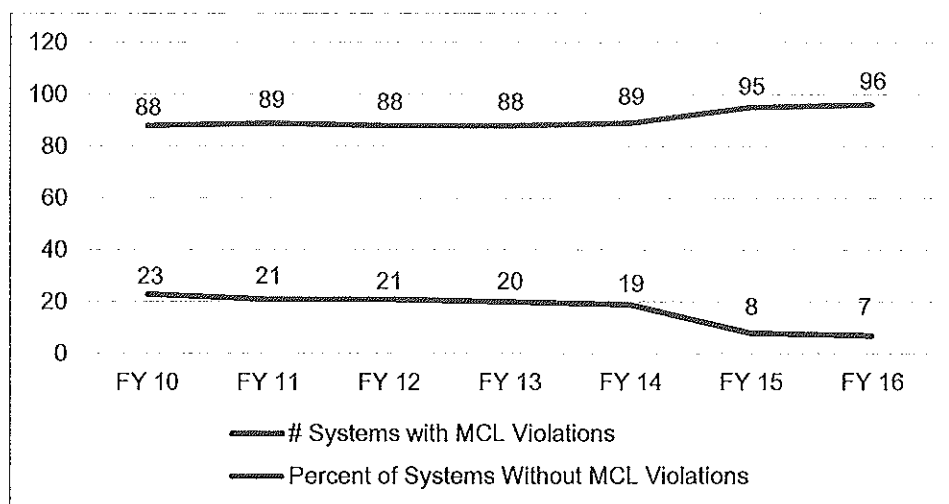
PRASA BACTERIOLOGY COMPLIANCE MONITORING			
MONTH/YEAR	SAMPLES TAKEN	POSITIVE SAMPLES	% POSITIVE
October 2015	3006	24	0.80%
November 2015	2981	24	0.81%
December 2015	2906	8	0.28%
January 2016	3005	16	0.53%
February 2016	2939	19	0.65%
March 2016	2946	10	0.34%
April 2016	2931	19	0.65%
May 2016	2931	15	0.51%
June 2016	2963	17	0.57%
July 2016	2952	21	0.71%
August 2016	2992	29	0.97%
September 2016	2912	21	0.72%
<b>TOTAL</b>	<b>35,464</b>	<b>223</b>	<b>0.63%</b>

A total of 35,464 bacteriological analyses were performed by PRASA as part of the compliance bacteriology monitoring. Out of these, 223 samples or 0.63% percent were found positive. Attachment 7 contains more details on PRASA bacteriology compliance monitoring.

A total of 8 bacteriology maximum contaminant level (MCL) violations were reported for 7 PRASA systems. From a total of 160 PRASA systems, 153 or 96% percent did not exhibit bacteriology violations from October 2015 to September 2016. See Attachment 6 for systems' list.

The following graph describes the percent of PRASA systems without MCL bacteriological violations and the number of systems with MCL violations in the previous years.

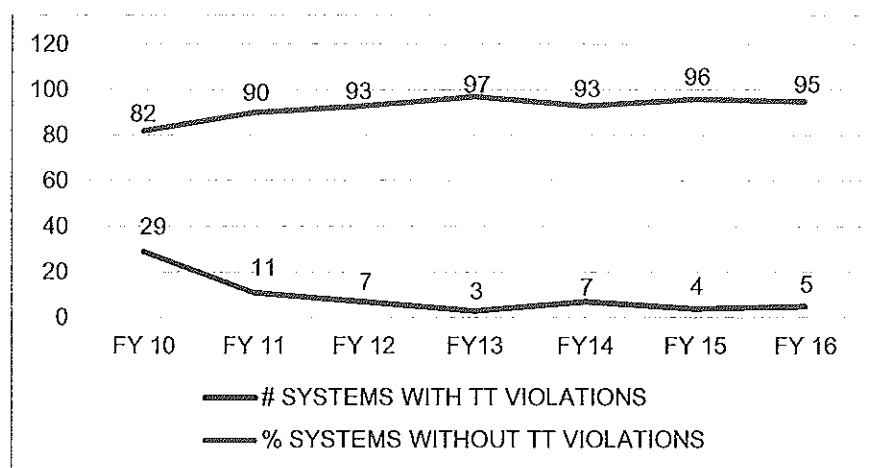
**NUMBER OF PRASA SYSTEMS WITH MCL VIOLATIONS AND SYSTEMS' PERCENT WITHOUT VIOLATIONS FROM FY '10 THRU FY '16**



On other hand, a total of 9 bacteriology monitoring reporting (MR) violations were reported for 6 PRASA systems. From a total of 160 PRASA systems, 151 systems or 94% percent did not exhibit MR violations from October 2015 to September 2016. See Attachment 6 for PRASA systems' list.

Regarding turbidity compliance, a total of 10 treatment technique (TT) turbidity violations were reported in 5 PRASA systems. From a total of 104 systems with filtration plants, 99 systems (95% percent) did not exhibit turbidity violations during FY-16. The next figure describes the percent of PRASA systems without TT turbidity violations in the last years. See Attachment 6 for systems' turbidity noncompliance.

**NUMBER OF PRASA SYSTEMS TREATMENT TECHNIQUE VIOLATIONS AND  
SYSTEMS' PERCENT WITHOUT TURBIDITY VIOLATIONS FROM FY 10 THRU FY 16**



The following table details the number of PRASA systems out of compliance for the Disinfection Byproducts Rule. Attachment 8 contains the name of PRASA systems out of compliance for TTHM, HAA5 and TOC removal.

FY-16 PRASA SUMMARY COMPLIANCE – DISINFECTION/DISINFECTION BY PRODUCTS RULE			
CONTAMINANT GROUP OR RULE REQUIREMENT	NUMBER OF SYSTEMS/FILTRATION PLANTS UNDER RULE	VIOLATION TYPE ( QUARTERLY COMPLIANCE DETERMINATION)	TOTAL SYSTEMS OUT OF COMPLIANCE BY SEPTEMBER 2016
Total Trihalomethanes (TTHMs)	All systems (160)	MCL based on Locational Running Annual Average	28
Haloacetic Acids (HAA5)	All systems (160)	MCL based on Locational Running Annual Average	20
Total Organic Carbon Removal (TOC)	Conventional filtration plants (114)	TOC Removal Ratio- TT based on Running Annual Average	3

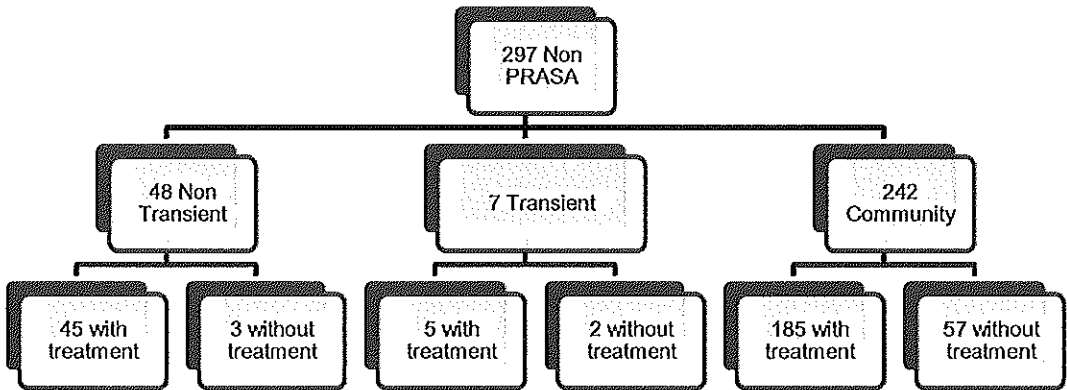


G. NON PRASA COMPLIANCE MONITORING

The Non PRASA Section has been designated to provide assistance to Non PRASA systems (systems not operated by PRASA). There are 297 Non PRASA systems (242 community systems, 48 Non Transient-Non Community and 7 Transient-Non Community). The Non PRASA systems represent approximately 4% of the total population.

In most cases, the Non PRASA community systems are located in rural areas throughout the island and lack of technical, managerial and financial capacity. Most of them are not well operated and therefore more potentially vulnerable to waterborne diseases. For last years, the Non PRASA Strategy has been the main tool used to bring those systems into compliance. Several approaches are being used, for example: connecting the systems to the nearest PRASA systems, the installation of disinfection equipment or changing the surface source to an underground one; regulatory orientation and education, among other strategies. Next chart details the total of Non PRASA systems by September 2016 in terms of type and treatment.

NON PRASA SYSTEM DISTRIBUTION IN TERMS OF TYPE AND TREATMENT BY SEPTEMBER 2016.



The following tables detail the NON PRASA systems' compliance with Total Coliform Rule (TCR) and Revised Total Coliform Rule (RTCR) requirements. From a total of 297 NON-PRASA systems, 121 bacteriology MCL violations were reported in 54 NON-PRASA systems. Attachment 9 contains the NON PRASA's systems out of compliance for TCR.

NON PRASA BACTERIOLOGY COMPLIANCE MONITORING		
VIOLATION TYPE	SYSTEMS WITH 4 OR MORE VIOLATIONS DURING FY-16	SYSTEMS WITH 1, 2 OR 3 VIOLATIONS DURING FY-16
MAXIMUM CONTAMINANT LEVEL	7	47
MONITORING/REPORTING	134	37

It is important to note that NON PRASA community systems present a bacteriology noncompliance situation, for both MCL and MR violations. Several community systems performed the compliance monitoring but the majority did not performed the monitoring as established resulting that 1,555 violations were registered in 171 Non PRASA systems. The comparison of the surveillance and compliance bacteriology monitoring in NON PRASA systems is presented in the following table.

NON PRASA COMMUNITY SYSTEMS - BACTERIOLOGY COMPLIANCE MONITORING				
TOTAL COMMUNITY SYSTEMS	BACTERIOLOGY	SAMPLES TAKEN	NEGATIVE AMPLES	PERCENT NEGATIVE SAMPLES
242	COMPLIANCE MONITORING	1,429	1,307	91%
	SURVEILLANCE MONITORING	1,397	939	67%

## H. ENFORCEMENT ACTIONS

PRASA submitted monitoring results for Bacteriology, Turbidity, Total Trihalomethanes, Regulated Volatile Organic Chemicals (VOC), Synthetic Organic Chemicals (SOC), Pesticides, Herbicides, PCB's, Nitrates, etc. All results were evaluated in order to determine compliance with the drinking water regulation (MR and MCL violations). During FY-16, the following enforcement actions were taken in PRASA and Non PRASA systems:

PRASA ENFORCEMENT ACTIONS	
ENFORCEMENT ACTIONS <sup>2</sup>	QUANTITY
NOTICES	8
WARNING LETTERS	2
NOTICES OF VIOLATION	43
STATE ADMINISTRATIVE ORDERS	0
JOINT MOTION FILED IN COURT	9
FOLLOW UP ACTIONS TO AMENDED TRANSACTION AGREEMENT	24

NON PRASA ENFORCEMENT ACTIONS	
ENFORCEMENT ACTIONS <sup>2</sup>	QUANTITY
NOTICES OF VIOLATION	13
STATE ADMINISTRATIVE ORDERS	1
LEGAL NOTIFICATIONS AND BOIL WATER ORDERS	2041
FOLLOW UP ACTIONS	873

<sup>2</sup> Data does not include regional enforcement actions. For Lead and Copper Rule enforcement actions see Section I.

## I. LEAD AND COPPER RULE

Regarding Lead and Copper Rule, the Projects Review Section evaluated four (4) projects in order to enforce the Lead Prohibition. Other enforcement actions are described below.

LEAD AND COPPER COMPLIANCE SUMMARY		
ACTIVITY	PRASA	NON PRASA (NTNC)
Total systems under Corrosion Control Treatment (CCT)	9	22
Total systems exceeding lead and/or copper action levels and a Desktop Evaluations (DE) were requested.	3	7
Total of DE received.	0	6
Total systems under MR for failure to monitor/report.	0	214

## J. PROJECT REVIEW SECTION

A total of 34 projects construction plans were reviewed during FY-16. Out of these, 9 were approved and 25 were pending for approval. The revision included new and substantially modified water supply facilities. A total of 14 projects onsite inspections were performed.

Assistance to water utilities on the proper design and construction of drinking water treatment facilities was provided. A total of 31 technical assistances were done.

Review and endorsement of construction plans for Non PRASA water facilities improvements continued.

## K. LABORATORY CERTIFICATION PROGRAM

The PRDOH Quality Control/Certification and Accreditation Section inspected PRASA and Private Laboratories. Several fields follow up audits and onsite visits were performed. Correction Plans, Laboratory Manuals and files were evaluated.

Sample collectors continued been certified from government and private facilities.

The Quality Management Plan (QMP) for FY 2015-2017 was submitted to EPA by April 27, 2015 and signed by EPA on June 4, 2015.

The Chemical Surveillance Monitoring Quality Assurance Project Plan was revised and signed on September 23, 2016.

The Microbiology Surveillance Monitoring Quality Assurance Project Plan was revised and signed on September 23, 2016.

The Laboratory Certification Program has already certified the following laboratories. Following table details the name of laboratories certified by FY-16.

LABORATORY CERTIFICATION STATUS BY SEPTEMBER 2016	
NAME	LOCATION
ACUALAB	Humacao, PR
ALCHEM LABORATORIES	Ponce, PR
AMA ANALYTICAL SERVICES	Lanham, MD
AMERICAN WATER BELLEVILLE LAB.	Belleville. IL
BECKTON ENVIRONMENTAL LAB.	Ponce, PR
ENVIRONMENTAL QUALITY LABORATORIES	Santurce, PR
EUROFINS EATON ANALYTICAL LAB	Monrovia, CA

LABORATORY CERTIFICATION STATUS BY SEPTEMBER 2016	
NAME	LOCATION
LAB. CLÍNICO ANALÍTICO	Ponce, PR
NATIONAL TESTING LABORATORIES	Ypsilanti, MI
PACE ANALYTICAL SERVICES	Ormond Beach, Florida; Minneapolis, MN Greensburg, PA
PRASA LABORATORIES	Arecibo, Mayagüez, Ponce, Caguas (PR)
PRDOH LABORATORIES	Arecibo, Mayagüez, Ponce <sup>3</sup> , San Juan (PR)
TEST AMERICA INC.	Savannah, GA
NORTH COAST SUPERACUEDUCT	Arecibo, PR

See Attachments 10 for documents related to Laboratory Certification Program.

## L. SEMINARS, TRAININGS AND WEBINARS

The 21<sup>th</sup> Drinking Water Seminar was celebrated on October 14-15, 2015 at Sheraton Hotel located in the municipality of San Juan, Puerto Rico. This event was sponsored by the Puerto Rico Department of Health (PRDOH), Environmental Protection Agency (EPA), American Water Works Association (AWWA, Puerto Rico Chapter) and Puerto Rico Water Environmental Association (PRWEA).

This annual activity has become an important educational tool for all professionals in the drinking water area and the regulated community. The Seminar format consisted of a combination of simultaneous and plenaries conferences of relevant topics concerning drinking water regulation, public health, water treatment technology and research, among others.

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<sup>3</sup> Certification until January 2016.

As part of the continued program education several lectures or training were received.

1. RTCR Level 1 Evaluation Workshop offered by PRDOH.
2. Webinar on Financial Health Check- up for Water Utilities offered by EPA.
3. Webinar on CCR Notification offered by EPA.
4. *Plenaria de Servicios de Salud ante el Zika* -offered by PRDOH at Centro de Convenciones on February 2016.
5. *Prevención del Suicidio* – Required to all government employee offered by OCALARH.
6. Different lectures as part of governmental employee continuing education triennial requirements offered by Office of Governmental Ethics.

## M. DATA MANAGEMENT

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All required reports were kept and submitted for FY-16.

The inventory of public water supply systems was quarterly updated and maintained. The inventory last updated was on August 31, 2016.

A record keeping system has been established to monitor water quality sampling and analytical results.

PRDOH continues the implementation of the SDWIS/STATE (Safe Drinking Water Information System) software as well as submitted the required data and reports to EPA.

## N. SPECIAL REPORTS

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The PWSS Program prepared several special reports during FY-16 as follows:

- Environmental Health Annual Report 2015-2016.
- Puerto Rico 2015 Annual Report on Public Water Systems Violations.
- Annual Report FY 15
- ETT Lists Quarterly Reports
- End of Year FY-15 Report
- Lead Ban 2015



## 2.0: DRINKING STATE REVOLVING FUND (DSRF) PROGRAM

### A. INTENDED USE PLAN (IUP)

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During fiscal 2015-16 the DOH through the DWSRF Program attained several achievements.

- On October 1, 2015 DOH approved PRASA's request for the redistribution of funds corresponding to FY 2010 and FY 2011 financial agreements. These redistribution of funds responded to the need of assigning those funds to projects that could use them in an expeditious way in order to comply with the Unliquidated Obligations Reduction Strategy (ULO's).
- The Disbursement Schedules of the projects corresponding to fiscal year 2010 that received additional funds or whose funds were reduced as part of the redistribution of funds undertaken on October 1, 2015, were revised and submitted, to the Government Development Bank for their information and corresponding action.
- On December 15, 2015 DOH approved PRASA's request for the redistribution of funds corresponding to FY 2013 and FY 2014 financial agreements in order to re-assign part of those funds to projects that could use them in an expeditious way to comply with the Unliquidated Obligations Reduction Strategy (ULO's).
- DOH also revised and submitted, to the Government Development Bank, the corresponding Disbursement Schedules of the projects that received additional funds or whose funds were reduced with the redistribution of funds undertaken on December 2015 for fiscal years 2013 and 2014.
- In accordance with the ULO's Strategy changes, up to date, DOH was able to disburse funds to projects from unliquidated obligations (ULO's) available from fiscal years 2012 to 2014. Disbursement were executed by GDB up to March 2016.
- All internal documents were revised in order to incorporate the redistribution of funds undertaken for fiscal years 2010, 2011, and 2014. Revisions to the accounting

records were undertaken in order to present in the projects individual accounting tables the revised amount assigned for each loan due to the redistribution of funds. These redistribution of funds corresponded to the need of assigning the un-liquidated funds to projects that could use them in an expeditious way in order to comply with the ULO's Reduction Strategy requirements.

- On April 27, 2016, DOH requested FFY 2016 Capitalization Grant funds in the amount of \$8,312,000, which is pending EPA's approval. In compliance with the law, the Public Hearing regarding the FFY 2016 Capitalization Grant funds was undertaken on May 6, 2016.
- In compliance with the law, the Public Hearing regarding the FFY 2016 Capitalization Grant funds was undertaken on May 6, 2016.
- Also, an Attorney General Opinion was requested. It was issued by the Attorney General Office and submitted directly from the Department of Justice to EPA, on letter dated April 22, 2016.
- Up to March 2016 PRASA disbursement requests were disbursed from the available balances of subsidy from fiscal years 2012 or repayment funds from fiscal years 2013 and 2014, as applicable. Only a small amount of funds in the subsidy portion of the 2012 financial agreement were pending disbursement, as well as repayment funds from previous years. After March 2016 GDB did not execute any cash draws and EPA imposed a federal cut-off to the mechanism of funds transfer between the Federal Treasury and GDB.
- Only two disbursements corresponding to the Juncos-Valenciano project were executed in July and September 2016 through the Moratorium Act in the amounts of \$789,135.61 and \$728,393.51 for a total of \$1,517,529.12.
- DOH was able to evaluate, and certify the total amount \$30,440,030.40 to cover projects expenses requests as September 30, 2016. From the total amount<sup>4</sup> evaluated and certified, due to the precarious economic situation that Puerto Rico's

economic has encountered, and EPA's cut-off the federal transfer mechanism, the amount cash drawn during FY 2016 was \$21,931,115.65. This amount corresponds to the 2009, 2010, 2011, 2012, and 2014 financial agreements, as follows: FY 2009 \$484,848.02; FY 2010:\$6,558,171.77; FY 2011: \$5,424,953.22; FY 2012 \$7,814,489.00; and FY 2014-\$10,177,568.39. These cash draws/disbursements included amounts directly related to the implementation of the ULO's Reduction Strategy.

- The total amount disbursed by DOH for set-asides DWSRF as of September 30, 2016 was \$320,239.61. These cash draws corresponded to the following grants: 2011, 2012 and 2013. Of the grand total of \$320,239.61, \$209,447.70 corresponds to the Administration of the Program and \$110,791.914 corresponds to the Technical Assistance set-aside. DOH was able to evaluate and endorse for reimbursement the total amount of \$655,544.85 evaluated and certified, due to the economic situation of Puerto Rico, only \$320,239.61 was cash drawn. This amount is disclosed as follows: \$209,447.70 corresponds to the Administration of the Program and \$110,643.64 corresponds to the Technical Assistance set-aside.
- On March 10, 2016 the financial agreement document corresponding to the fiscal year 2015 funds in the amount of \$21,542,187 was sent in advanced through e-mail to GDB/PRIFA for its execution. These funds were assigned for improvements to thirty-one (31) projects, from which four (4) were new projects and twenty-seven (27) were projects in need of more funds for the completion of its construction due to the limitation of funds when they were originally funded. The execution of this financial agreement is currently pending due to several situations encountered by the Commonwealth. Puerto Rico has been unable to comply with its general obligations and payment of its debt to the bondholders. This includes PRASA as a corporation of the Commonwealth, whose financial condition has forced it to enter into a Forbearance Agreement related to the SRF debt. Due to the economic situation that Puerto Rico's is undergoing, the Commonwealth, the Government Development Bank and PRASA are under serious operational and economic distress that does not

allow the approval of said loan/financial agreement.

- On December 14, 2015 a time extension was requested for the submittal of Final and Interim FFRs for fiscal years 2009, 2010, and 2012. All the reports were submitted.
- Final Federal Financial Reports (FFRs) for the close-out process for Assistance Agreements Numbers FS99290409; FS99290410 and FS99290411 were submitted on April 28, 2016, December 18, 2015 and April 29, 2016, respectively; but only the close-out letter corresponding to grant FS99290410 was issued by EPA on January 21, 2016.
- DOH has been able to maintain updated the information of the Project Benefit Reporting as information becomes available, as well as with the submittal of the DBE (MBW/WBE) reporting for this fiscal year. Related to the DBE form 6100, these are available in the project files upon bids awards/completion.
- During fiscal year 2016 DOH was able to provide all related data needed for the National Information and Management System (NIMS) in compliance with the dateline established.
- During fiscal year 2016 DOH was able to complete, in coordination with PRASA, the related data needed for the preparation of the DWSRF Needs Survey and the necessary changes were uploaded to EPA's website <https://dwneeds.epa.gov/>.
- DOH has been able to maintain updated the information of the Project Benefit Reporting as information becomes available.
- DOH informed PRASA of the repayment date for several projects funded with regular DWSRF Program funds: Lajas-San Germán Transmission Lines, Hatillo-Camuy-Quebradillas, Phase II, Arecibo-Esperanza, Guayama Urbano and Ciales-Las Delicias. These repayments corresponded to three (3) loans included in financial agreements, from fiscal years 2009, 2011 and 2013 funds.

PWSID No.	DWSRF Funds Projects Name	Award Year	Repayment Dates
3323 (a)	Lajas-San Germán Transm. Lines	2009	December 31, 2015
2792 (a)	Arecibo-Esperanza	2009	January 1, 2016
4745 (a)	Guayama	2009	June 4, 2016
		2013	June 4, 2016
3732 (a)	Ciales-Las Delicias	2009	July 1, 2016
2662 (c)	Hatillo-Camuy-Quebradillas	2009	July 1, 2016
2662 (c)	Hatillo-Camuy-Quebradillas	2011	December 31, 2016

- DOH has been able to maintain updated the information of the Project Benefit Reporting as information becomes available, as well as with the submittal of the DBE (MBW/WBE) reporting for this fiscal year.
- During fiscal year 2015 DOH was able to initiate the coordination with PRASA related to the data needed for the preparation of the DWSRF Needs Survey.

## B. INFRASTRUCTURE PROJECTS

The DWSRF provides funds for promoting infrastructure improvements that will facilitate the compliance of the public drinking water systems with the SDWA. The following tables show the construction status of all the infrastructure projects financed by the ARRA and the DWSRF regular program:

DWSRF REGULAR PROGRAM INFRASTRUCTURE PROJECTS			
PWSID	NAME PROJECT	APPROVED FUNDS (\$M)	CONSTRUCTION STATUS
3732 a	Las Delicias WTP	2.95	100%
4745	Guayama Urbano WTP	8.6	100%
3323	Lajas-San Germán	3.95	100%
5517	Cedro Arriba WTP	3.1	100%
3593	La Máquina WTP Elim.	3.0	100%
2762 (b)	Morovis Sur WTP	5.6	100%
2762 (a)	Morovis Urbano WTP	4.3	100%
3433	La Rocha WTP Elim.	4.0	100%
2662	Hatillo-Camuy WDS-Phase II	11.6	100%
5166	Valenciano WTP-Phase I	24.5	45%*
3824 b	Ponce Nueva WTP	2.45	0%
3824 a	Ponce Vieja WTP Elimination	2.45	0%
4524 a	Coto Laurel WTP	2.5	0%
5086	Caguas Norte WTP	2.2	100%
5066 a	Caguas Sur WDS Tanks Roof Cover	0.25	100%
3772	Guajataca WTP	2.3	100%*
2712	Jayuya Urbano WTP	2.7	40%
4114	Guaraguo WTP	0.5	0%
3924	Toa Vaca WTP	3.27	99%
Total		\$87.27	
* Terminated by convenience by PRASA due to fiscal crisis.			

## C. CAPACITY DEVELOPMENT

DOH has complied with the quarterly reporting associated with the ETT and it is the intention to continue doing so as well as to comply with the inclusion of said information in the Annual Capacity Development Report.

According to ERP/ETT lists submitted by EPA up to **FY-16**, the total number of systems with score equal or above 11 were:

SYSTEMS WITH SCORES GREATER THAN 11 FROM FY 2014 to FY 2016*											
SYSTEMS	FISCAL YEAR / QUARTERS										
	FY 2014				FY 2015				FY 2016**		
Quarters	JAN	APR	JUL*	OCT	JAN	APR	JUL	OCT	JAN	APR	JUL
PRASA Systems	21	14	37	48	55	65	40	44	50	52	48
Non-PRASA Private	11	10	10	10	13	10	2	1	2	3	2
Non-PRASA Communities	134	141	122	134	135	135	98	110	117	113	139
<b>Total</b>	<b>166</b>	<b>165</b>	<b>169</b>	<b>192</b>	<b>203</b>	<b>210</b>	<b>140</b>	<b>155</b>	<b>169</b>	<b>165</b>	<b>189</b>
* Data from FY 2011 to FY 2013 is included in Attachment 3 of the Capacity Development Report 2015-16.											
** Data available as of September 2016.											

There are other general regular day-to-day activities and follow-ups undertaken during this fiscal year that include but are not limited to the following:

Provide assistance to 48 public water systems through the use of the circuit riders concept and expand the circuit riders project directed towards but not limited to: systems' compliance evaluation with the SDWA and regulations, inspections, technical, administrative and financial status evaluation for the identification of problems / limiting factors in said areas, guidance and assistance in community organization, technical assistance and education for eliminating limiting factors, guidance and assistance in the search of external additional resources, provide training and

assessment on public environmental health issues, undertake sanitary surveys. A two years contract was executed effective January 2015 with RCAP Solutions for undertaking the development of a Circuit Riders project. As of September 2016, 100% of the project completion was attained. During this fiscal year the following was achieved: forty eight (48) systems were subject to Sanitary Surveys, where 46 were evaluated in terms of their capacities (Initial and Final CPE), and the technical, financial and administrative capacities were measured.

As part of the implementation of the Capacity Development Strategy DOH continue implementing a comprehensive evaluation process, of new and existing small systems, utilizing the Capacity Development Checklist. Up to date, DOH has evaluated fifteen (15) new systems under these terms and approved ten (10) for operation. The following table discloses this information:

NEW SYSTEMS CAPACITY DEVELOPMENT EVALUATIONS/DETERMINATIONS											
Method(s) used to evaluate and verify program implementation	Up to FY 07 <sup>4</sup>	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16 <sup>5</sup>	TOTAL
Proposed new CWSs	2	0	0	0	0	0	0	0	0	1	3
Proposed new NTNCWSs <sup>6</sup>	3	0	1	1	1	0	1	3	1	4	15
Approved new CWSs	4	0	0	0	0	0	0	0	0	0	4
Approved new NTNCWSs	0	0	0	0	0	0	0	2	2	1	5
New CWS's commenced operation after 10/1/01	5	0	0	0	0	0	0	0	0	0	5
New NTNCWSs commenced operation after 10/1/01	3	1	0	1	0	0	0	2	2	1	10
New CWS's that are not in compliance/reason for noncompliance	-	-	-	-	-	-	-	-	-	-	-
New NTNCWSs that are not in compliance/reason for noncompliance	-	-	-	-	-	-	-	-	-	-	-

<sup>4</sup> Prior years' data has been provided in previous Capacity Development Reports.

<sup>5</sup> Information as of September 2016.

<sup>6</sup> Only comments issued.



## D. OPERATOR CERTIFICATION PROGRAM

The PRASA systems are divided into five (5) regions. The following table shows the PRASA surface water systems/plants by region:

PRASA PLANTS BY REGION						
Region	2011	2012	2013	2014	2015	2016
Metro	7	7	8	8	8	8
East	32	32	32	31	31	31
North	32	32	30	30	30	30
South	33	32	30	30	31	31
West	21	21	21	19	18	18
<b>Total</b>	<b>125</b>	<b>124</b>	<b>121</b>	<b>118</b>	<b>118</b>	<b>118</b>

Based on PRDOH's final category, the plants are divided by region, as follows in 2016:

PRASA PLANT CATEGORY BY REGION 2016					
Region	I	II	III	IV	Total
Metro	0	1	3	4	8
East	0	1	23	7	31
North	0	7	21	2	30
South	0	6	18	7	31
West	0	4	11	3	18
<b>Total</b>	<b>0</b>	<b>19</b>	<b>76</b>	<b>23</b>	<b>118</b>

The following table shows a summary of the surface drinking water systems/plants classified by category in the past years. It can be appreciated no net change of quantity of plants in FY 2016 if compared to FY 2015. But there was new classifications and update of the inventory in FY-2016 due to changes and improvements made.

PRASA PLANT CATEGORY COMPARISON						
Category	2011	2012	2013	2014	2015	2016
I	0	0	0	0	0	0
II	21	21	20	19	18	18
III	81	81	79	78	77	77
IV	23	22	22	21	23	23
<b>Total</b>	<b>125</b>	<b>124</b>	<b>121</b>	<b>118</b>	<b>118</b>	<b>118</b>

The following table shows the PRASA ground water systems by region. It can be appreciated no net change of quantity of PRASA GWS by Region in FY 2016 if compared to FY 2015.

PRASA GWS BY REGION						
Region	2011	2012	2013	2014	2015	2016
Metro	0	0	0	0	0	0
East	10	8	8	8	4	4
North	22	17	17	17	17	17
South	32	30	25	25	24	24
West	15	14	12	13	13	13
<b>Total</b>	<b>79</b>	<b>69</b>	<b>62</b>	<b>63</b>	<b>58</b>	<b>58</b>

The category for the existing GWS has not change since FY 2015. Based on PRDOH's updated category inventory, the GW PRASA systems are divided by region as follows in **2016**:

GW PRASA Systems Category by Region 2016					
Region	I	II	III	IV	Total
Metro	0	0	0	0	0
East	4	0	0	0	4
North	17	0	0	0	17
South	24	0	0	0	24
West	13	0	0	0	13
<b>Total</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>58</b>

The following table shows a summary of the category classification of PRASA's ground drinking water systems up to FY 2016. It can be appreciated no net change of quantity of PRASA GWS by Category in FY 2016 if compared to FY 2015.

GW PRASA Systems by Category						
Category	2011	2012	2013	2014	2015	2016
I	79	69	62	63	58	58
II	0	0	0	0	0	0
III	0	0	0	0	0	0
IV	0	0	0	0	0	0
<b>Total</b>	<b>79</b>	<b>69</b>	<b>62</b>	<b>63</b>	<b>58</b>	<b>58</b>

The category for three existing PRASA SW systems changed for FY 2016. In summary, the final category for FY 2016 for the total PRASA SW and GW systems is as follows:

PRASA SYSTEMS BY CATEGORY						
Category	2011	2012	2013	2014	2015	2016
I	79	69	62	63	58	58
II	21	21	20	19	18	19
III	81	81	79	78	77	76
IV	23	22	22	21	23	23
<b>Total</b>	<b>204</b>	<b>193</b>	<b>183</b>	<b>181</b>	<b>176</b>	<b>176*</b>
* We have to take into account that PRASA has a total of 118 filtration plants corresponding to 104 surface water systems. If we add the 118 SW plants with the 58 GW systems it gives a total of 176 classifications for PRASA for FY 2016.						

Coordination with the Board of Examiners regarding the process of administering the examination for operator's certification was maintained during this year. The following table shows that 159 (81 + 78) candidates from 264 approved examination administered by the Board in: (1) November 2015 and (2) May 2016:

DRINKING WATER EXAMS ADMINISTERED BY THE BOARD	
EXAMINATION DATE	TOTAL CANDIDATES
November 2008	255
July 2009	165
November 2009	61
June 2010	174
November 2010	201
May 2011	189
November 2011	201
April 2012	222
October 2012	145
May 2013	130
November 2013	175
April 2014	66
November 2014	28*
April 2015	34*

DRINKING WATER EXAMS ADMINISTERED BY THE BOARD	
EXAMINATION DATE	TOTAL CANDIDATES
November 2015	81
May 2016	78
<b>Total</b>	<b>2,595</b>
* The total number of applicants is not available, only approved applications for examination in these dates.	

The categories of the exams administered in November 2015 and May 2016 are presented in the next table. This table also shows the percent of exams administered per category, for last year's report. This table also shows the percent of exams administered per category.

NEW DRINKING WATER EXAMS BY CATEGORY				
CATEGORIES	EXAMS NOV 2015	EXAMS MAY 2016	TOTAL EXAMS	PERCENT (%) 2016
I	10	34	44	28
II	3	5	8	5
III	10	8	18	11
IV	58	31	89	56
<b>Total</b>	<b>81</b>	<b>78</b>	<b>159</b>	<b>100</b>

The next table shows the percent of approved examinations by category for FY 2016. A total of 106 candidates approved the drinking water exam from the 159 initial candidates which provides a total of 53 candidates that did not approved the exam.

Approved Drinking Water Exams by Category 2016							
Categories	November 2015		May 2016		Total Exams 2016		Percent Approved by Category 2016 (%)
	Approved	Not Approved	Approved	Not Approved	Approved	Not Approved	
I	6	4	25	9	31	13	29
II	3	0	4	1	7	1	7
III	8	2	5	3	13	5	12
IV	32	26	23	8	55	34	52
<b>Total</b>	<b>49</b>	<b>32</b>	<b>57</b>	<b>21</b>	<b>106</b>	<b>53</b>	<b>100</b>

There is at least one operator associated to each of the operating shifts of each treatment plant, which in turn is under the supervision of one or more managerial personnel. These management/supervisory personnel are certified operators associated to the five regions.

The PRDOH extended a contract agreement to continue a Circuit Rider Program Project with activities related to the Operator Certification Program. The following sections describe the activities performed during FY 2016 for Contractual Agreement 2015-DS0971.

- Oversight of the new contractual agreement in place for the administration of the Circuit Rider Program.
- A total of 24 system operators received direct operator training and technical assistance.
- Approximately 2 meetings were held with the contractor to discuss the coordination of future activities of the contract agreement as established in the approved work plan.
- Nineteen (19) Operator I Exam candidates were assisted in the application and payment of the exam.
- Twelve (12) invoices regarding the contract were received, evaluated, and all were approved.
- Twelve (12) Progress Reports regarding the contract were received, evaluated, and all were approved.
- Prepared twelve (12) evaluation reports regarding the activities performed by the contractor.
- Nineteen (19) exam applications were submitted to The Board during March 2016.
- Thirteen (13) license applications were submitted to the Board during July 2016. In addition received the necessary required information for obtaining it including in force dates and renewal, assessment in the display of the license in the system's facilities and others.
- Technical assistance and orientation has been provided to 48 systems regarding available trainings, application for exam, law requirements, certification and license process, and others.
- The project account spreadsheet was revised and updated to include expenses from contract agreement.
- The percent project completion spreadsheet was revised and updated to include project activities.

## E. TECHNICAL ASSISTANCE

This Program provides assistance and orientation in areas such as infrastructure, source, treatment, storage and distribution of the systems with the intention of improving the physical and operational ability of the system in order to promote compliance with the requirements of the law. During the last year the following activities were undertaken:

OUTPUT	OUTCOME / ACHIEVEMENT
Validate Comprehensive Performance Evaluations (CPE's) methodology for approximately 20 small systems	Evaluate interim and final compliance profiles of approximately 23 systems in order to provide assistance for promoting and attaining compliance / Under a two-year contract, during the second year 20 systems' compliance profiles were undertaken.
Continue providing orientation on funds availability to 50 small systems through site visits, meetings, written communications or telephone calls.	Increase knowledge of and compliance with the requirements of the SDWA / Approximately 105 systems received assistance and in total 161 direct total assistance were provided.
Attend seminars and workshops (1) as part of the training to DWSRF personnel	Stay current with information related to new requirements of the SDWA / Assistance to three (3) seminars.
Support PWSS program in the inspection of approximately 50 small systems	Assist systems and communities in determining and assessing compliance limiting factors in order to promote compliance / One hundred sixty-one (161) inspections reported.
Guide approximately 300 small systems in the preparation of their Consumer Confident Reports (CCR's)	Increase the knowledge of systems in an effort to reduce violations / Approximately 247 small systems were assisted in the preparation of the CCRs.
Undertake approximately 10 small systems sanitary surveys	Educate operators in an effort to promote public health, outline necessary improvements and reduce non-compliance. During the two years contract of the Circuit Riders project, forty-eight (48) sanitary surveys have been undertaken.
Identify services necessary for compliance, based on the revised CPE	Improve compliance of systems that have CPE's. / Twenty (20) compliance action plans based on the CPEs were prepared.
Educate small systems on DWSRF program requirements, compliance actions, fund requests and systems evaluations	Increase systems knowledge regarding compliance requirements. / Approximately 48 systems received assistance related to DWSRF program requirements.
Assess approximately 48 systems in the organization process	Conduct approximately 48 systems towards compliance with Commonwealth and federal laws and regulations / All the 48 systems were assessed in the organization process.

During FY 2016 all our anticipated Outputs and Outcomes regarding the Technical Assistance Program were achieved and, within others, the following activities were undertaken:

- Provide assistance to 48 public water systems through the use of the circuit riders concept and expand the circuit riders project directed towards but not limited to: systems' compliance evaluation with the SDWA and regulations, technical, administrative and financial status evaluation for the identification of limiting factors, guidance and assistance in community organization, technical assistance and education for eliminating limiting factors, guidance and assistance in the search of external additional resources, provide training and assessment on public environmental health issues, undertake sanitary surveys. A two years contract was executed effective January 2015 with RCAP Solutions for undertaking the development of a Circuit Riders project. Forty eight (48) systems were subject to Sanitary Surveys and only 23 were evaluated in terms of their capacities, where the technical, financial and administrative capacities will be measured. In addition, 48 Sanitary Surveys were undertaken and 20 Action Plans corresponding to these systems to these systems were prepared. Twenty-three (23) CPEs with their corresponding action plans were prepared.
- Provide assistance to authorized entities conducting comprehensive performance evaluations (CPE's), including revisions of CPE's. Several were provided by the contractor.
- Evaluate and assess proposed DWSRF funding eligibility for proposed improvement/rehabilitation projects. Thirty one (31) projects were revised and four were new projects.
- Continue providing technical assistance support to existing circuit riders previously established by public, private and non-profit agencies to avail small systems' compliance. Approximately one hundred five (105) systems were assisted.
- Evaluate proposed Commonwealth legislation associated to small systems. One (1) legislative project was received for evaluation.
- Assist the PWSS program in conducting approximately 48 small systems sanitary surveys. A total of forty-eight (48) were undertaken under contract with a private entity.
- Coordinate with and among non-profit private entities providing services to small systems in order to increase benefits and maximize efforts. One directly provided assistance to twenty-five (25) systems.

- Continue the implementation of the PR Technical Assistance Support (TAS) program in order to carry out assistance initiatives in concert with other Commonwealth agencies. Thirty-one (31) systems in Circuit Riders projects were advised on funding availability and compliance activities.
- Assist the PWSS program in performing field inspections of small systems. One hundred sixty-one (161) inspections reported.
- Collaborate with the PWSS program in enforcement and compliance activities, including, assisting and guiding small systems. Three hundred twenty (320) reported.
- Assess approximately 50 systems in the organization process in order to conduct them towards compliance with Commonwealth, federal laws and regulations. One hundred twelve (112) visits reported.
- DOH continues assisting systems by providing orientations regarding disinfection processes and the preparation of the Consumer's Confident Report (CCR). Approximately 247 small systems were assisted in the preparation of the CCRs.
- Continue implementing a comprehensive evaluation process, of new and existing small systems, utilizing the Capacity Development Checklist.
- Implemented in the Public Water Supply Supervision Program (PWSS), the Capacity Development and the DWSRF programs actions to reflect the new Enforcement Response Policy (ERP) and the Enforcement Targeting Tool (ETT). DOH has complied with the quarterly reporting required with the ETT and it is the intention to continue doing so, as well as to provide certain information/details related to the ETT in the Capacity Development Report once the policy is in force.



## Contact Information

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Javier O. Torres, Director

Drinking Water Division

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### DEPARTMENT OF HEALTH

PO BOX 70184

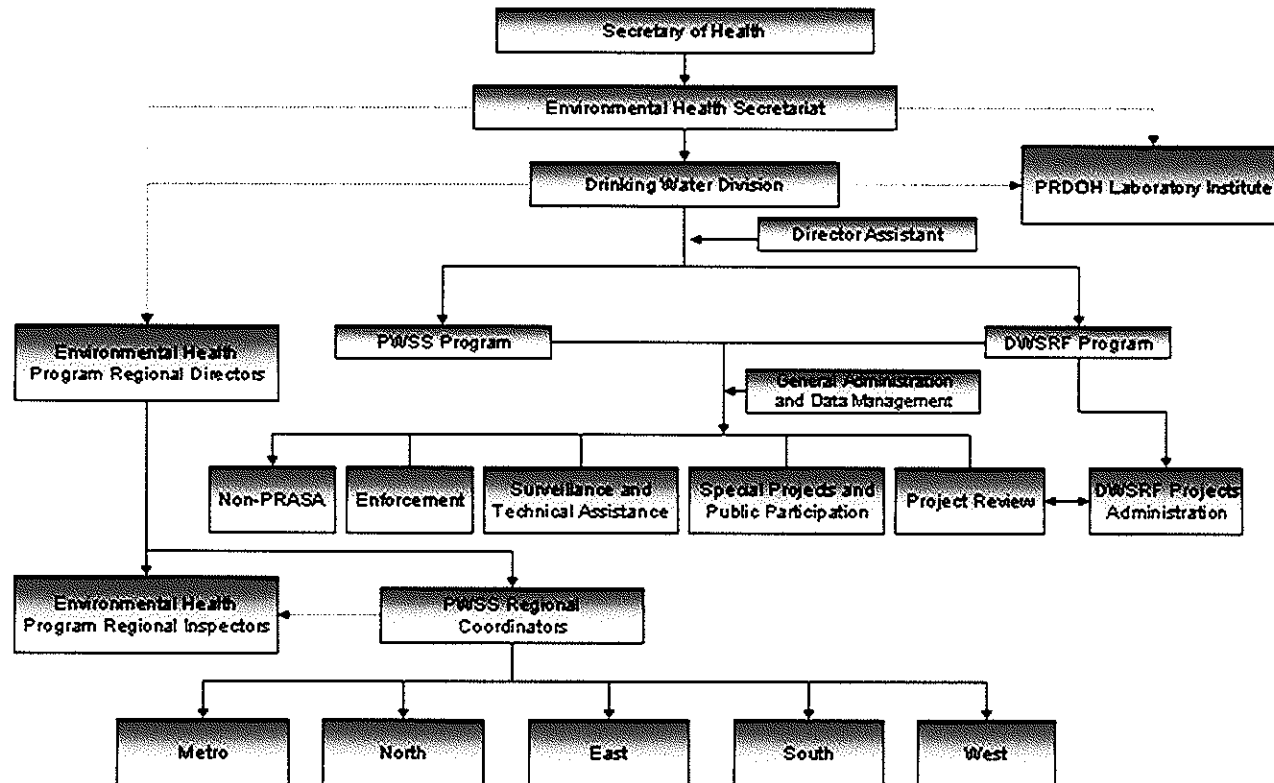
SAN JUAN, PR 00936-8184

Tel 787-777-0150

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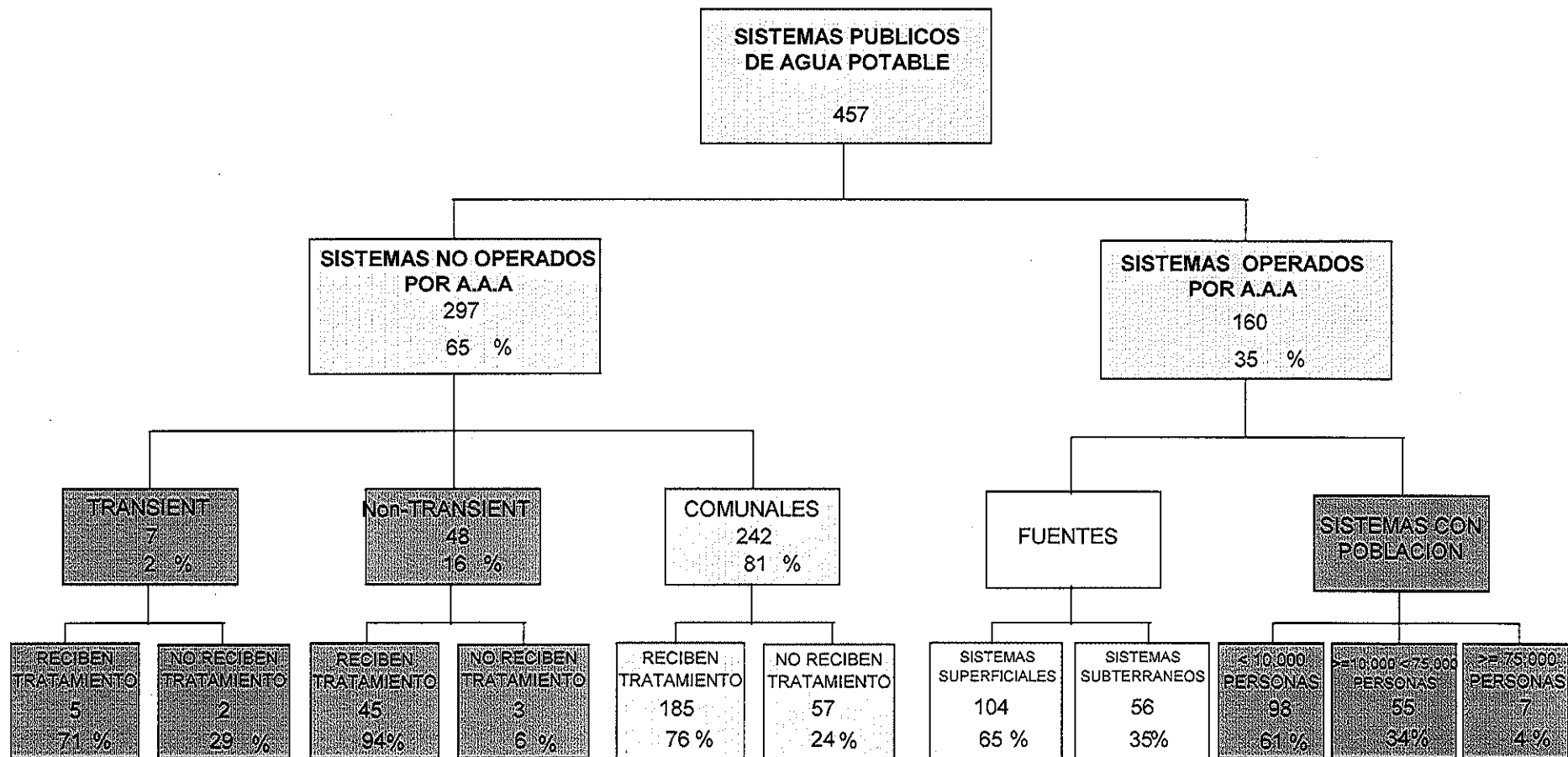


## DRINKING WATER DIVISION ORGANIZATION FLOWCHART





# DISTRIBUCION DE SISTEMAS PUBLICOS DE AGUA POTABLE EN PUERTO RICO



**POBLACION SERVIDA POR:**

Sistemas operados por AAA: 96 %

Sistemas no operados por AAA: 4 %

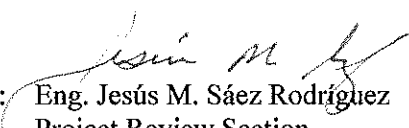
Revisado: 02/10/17





ESTADO LIBRE ASOCIADO DE  
**P U E R T O   R I C O**  
Departamento de Salud

To: Javier O. Torres  
Director  
Public Water Supply Supervision Division

From:   
Eng. Jesús M. Sáez Rodríguez  
Project Review Section  
Public Water Supply Supervision Division

Subject: **ANNUAL REPORT PLANS REVIEW SECTION FY-16**

Date: **November 2, 2016**

1. A total of 34 projects construction plans were reviewed during FY-16 (October 2014 to September 2015). From these, 9 were endorsed. Review included new and substantially modified facilities and also, large and Compact Filtration Plants include Sludge Treatment System (PRASA & Non-PRASA).
2. Conducted 14 on-site inspection of construction of Public Water Supply facilities.
3. Continued to assist water utilities on the proper design and construction of drinking water treatment facilities.
4. Some projects construction plans were disapproved or pending for approvals due to there are not in compliance with the Regulations of Department of Health, actually have more than 25 projects.
5. Reviewing and endorsement of construction plans of Non-PRASA water systems improvements were continued.
6. Our section gives more than 31 technical assistance during FY-16.
7. A total of 99 revisions to documents were conducted including but not limited to disinfections (lines, tank and filter and others), new treatment techniques, protocols and materials in contact with water.

## Annual Report FY-16

### Project Review Section

<i>ACTIVITY</i>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Ago	Sep	Total
<i>Technical Advice</i>	2	2	2	3	1	3	3	4	3	2	3	3	31
<i>Preliminary Endorsements</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trainings Offered</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Revised Project Submitted</i>	8	4	3	1	1	5	5	3	4	0	0	0	34
<i>Not Endorsed Projects</i>	6	2	3	0	1	5	2	2	4	0	0	0	25
<i>Approved Projects Current FY</i>	2	2	0	1	0	0	3	1	0	0	0	0	9
<i>Meetings</i>	0	0	2	0	1	0	0	0	0	0	0	0	3
<i>a. PRASA</i>	0	0	1	0	0	0	0	0	0	0	0	0	2
<i>b. Private Consultants</i>	0	0	1	0	1	0	0	0	0	0	0	0	1
<i>c. Others</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Inspections to Project</i>	4	2	2	1	1	0	0	0	0	3	0	1	14
<i>Reinspections to Project</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Others</i>	15	7	12	6	7	6	10	8	5	13	7	3	99





ESTADO LIBRE ASOCIADO DE  
**PUERTO RICO**  
Departamento de Salud

December 14, 2016

Eng. Javier O. Torres, P.E.  
Director  
Public Water Supply  
Supervision Program  
Department of Health

  
Zaida Roig Franceschini, EIT  
Regional Engineer  
South Team

## Annual Report FY 16

The main activities performed during the Fiscal Year -2015 were:

- **PRASA Systems**

- Sanitary Surveys to the following systems:

▪ Arenas	4374
▪ Deportivo	4444
▪ Piedras Blancas	4474
▪ Rucio	4614
▪ Hogares Seguros	4514
▪ Dajao	4604
▪ Matuyas	4825
▪ Cimarrona	4765
▪ Consejo	4484
▪ Apeadero	3944
▪ Guilarte	4494
▪ Agustinillo	4644
▪ Villalba	3924
▪ Coto Laurel	4524
▪ Jacabo	4845
▪ Garzas	4584
▪ La Mocha	4214
▪ Jagua Ceiba	4624
▪ Toa Vaca	4664
▪ Peñuelas	4324
▪ Olimpia	4204

- The following Filtration Plants were inspected in the year

▪ Rucio	4614
▪ Hogares Seguros	4514

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### División de Agua Potable

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- Matuyas 4825
- Apeadero 3944
- Guilarte 4494
- Villalba 3924
- Coto Laurel 4524
- Garzas 4584
- Jagua Ceiba 4624
- Toa Vaca 4664
- Peñuelas 4324
- Guayanes 4324
- Olimpia 4204
- Investigation of Chemical Contaminants
  - Yahuecas 4684
- Thirty -three (33) enforcement actions were taken.
- Two thousand twenty eight (2028) follow up actions were given.
- Forty nine (49) technical assistances were given.
- One seminars (1) and/or workshops were received.
- Three (3) complaints was received.
- Twenty (20) meeting were attended.
- Five thousand two hundred forty four (5244) other activities related to PRASA were done.
- Fifty two (52) checkout visited were done.
- One hundred (100) water pumps station were inspected.
- Seventy one (17) Wells were inspected.
- One hundred forty seven twelve (147) tanks were inspected.
- Follow up actions of Acuerdo de Transacción PRASA- DOH
- All the filtration plants were visits for checking the laboratory instruments.
- Follow up RTCR rule
- **Non PRASA Systems**
  - Thirty seven (37) Sanitary Surveys were done.
  - Eleven (11) checkout visits were done.
  - Two hundred seventy nine (279) follow up action were given.
  - Thirty eight (38) technical assistances were given.
  - One hundred seventy nine (179) public notifications to boil water were given.
  - Eleven (11) meetings were attended.
  - Seven hundred eight one (781) other activities related to Non PRASA systems were done.
  - Four (4) enforcement actions were taken.
  - Fifty four (54) tanks were inspected.

Cc. Mrs. Maria Del C. Quiñones  
 Ponce Regional Director  
 Environmental Health Program, DOH



ESTADO LIBRE ASOCIADO DE  
**P U E R T O   R I C O**  
Departamento de Salud

January 03, 2017

Eng. Javier O. Torres, Director  
Drinking Water Division

Oneida Santiago  
Enforcement Section  
Public Water Supply Supervision Program

**Enforcement and Compliance Section – PRASA Systems**  
**Annual Report FFY 2016 - (October 1<sup>st</sup>, 2015 – September 30, 2016)**

The Enforcement and Compliance Section activities performed during the referred period were mainly related to the requirements stipulated under the Amendment Settlement Agreement (ASA) in the case of Department of Health vs Puerto Rico Aqueduct and Sewer Authority (PRASA), Case No. KPE 06-0858.

Follow up actions were conducted during this period related to ASA stipulated obligations, such as: future violations and the corresponding corrective action plans; compliance determination with the general interim remedial and preventive measures, standard operation procedures, continuous monitoring program, quarterly reports, among other requirements. Revisions of compliance monitoring results were performed in order to determine compliance to National Drinking Primary Water Regulations, except for Lead and Copper (L& C) Rule, Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) and Unregulated Monitoring Contaminant Rule (UCMR).

In general, the following table details other enforcement actions performed in PRASA systems during FY-16:

Enforcement Action	Quantity
Notice Letters	8
Warning Letters	2
Notice of Violation	23
State Administrative Order	0
Technical Assistance	19
Meetings	7
Other activities	405

**División de Agua Potable**

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Assistance to the following Lectures/seminars/webinars:

- a. 21<sup>th</sup> Drinking Water Seminar celebrated on October 14-15, 2015 at Sheraton Hotel- San Juan.
- b. RTRC Level 1 Evaluation Workshop offered by PRDOH.
- c. Webinar on CCR Notification offered by EPA.
- d. *Plenaria de Servicios de Salud ante el Zika* -offered by PRDOH at Centro de Convenciones on February 2016.
- e. *Prevención del Suicidio* – Required to all government employee offered by OCALARH.
- f. Different lectures as part of governmental employee continuing education triennial requirements offered by Office of Governmental Ethics.

The following documents were prepared:

- g. Puerto Rico - Annual Report of Drinking Water Systems Violations 2015
- h. PWSS Program End of Year Evaluation FFY -15
- i. Annual Report FY 15
- j. Four (4) ERP-ETT Reports submitted to EPA-Region2.

Assistance to Non PRASA Section, Lead and Copper and LT2 Coordinators was given regarding compliance determination and enforcement actions.



ESTADO LIBRE ASOCIADO DE  
PUERTO RICO  
Departamento de Salud

January 13, 2017

Javier O. Torres Urbina, P.E.  
Director  
Drinking Water Supervision Division

Ayda M. Mercado Miranda  
Regional Coordinator  
Western Region  
Drinking Water Supervision Division

#### **WESTERN REGION ANNUAL REPORT, FISCAL YEAR 2016**

The Western Region consists of fifteen (15) counties that are located in the western area of Puerto Rico and was formed due to the reorganization of the Puerto Rico Aqueduct and Sewer Authority in the Western.

Enclosed here are the main activities for PRASA and NON PRASA sections, performed in the Western Region during the past fiscal year 2016:

1. **Follow Up Actions** – One hundred sixteen follow up actions were done due to coliform positive samples, low free chlorine levels ( $<0.2\text{mg/l}$ ), high turbidity levels or violations ( $>1$  NTU) on filtration plants, ATE, Incidents Notifications, and other violations.
2. **Technical Assistance**- Eight Technical assistance activities were offered to Non PRASA communities
3. **Seminars Attendance**- I participated of one Workshop
  - Governmental Ethics Office Workshops- (1) ( May 2016)
4. **Filtration Plants Inspections** – At least three inspections were done.
5. **Inspections to Storage Tanks**- At least thirteen inspections were done.
6. **Inspections to Ground Wells**- At least six inspections were done.
7. **Inspections to Community Water Systems**- At least four inspections were done.
8. **Sanitary Surveys** – At least eight sanitary surveys were done.
9. **Check Inspections** - At least five check inspections were done.
10. **Pumping Station Inspections** - At least four inspections were done.
11. **About fifty Boiling Water Orders and Notifications were emitted to NON PRASA Systems.**
12. **About five Incidents Notifications were emitted to PRASA Systems.**
13. **About eighteen Operator Certification check actions were done**



**14. About one hundred and twenty one other activities were done in order to comply with our duties.**

Cf. Mr. Eduardo Padilla- Mayagüez Environmental Health Program Director



January 23, 2017

Eng Javier Torres Urbina, PE  
Director  
Drinking Water Supervision Division

Eng Alex J Rios Mejias  
Regional Coordinator  
Drinking Water Supervision Division  
West Region

### Eng ALEX J RIOS MEJIAS ANNUAL REPORT, FISCAL YEAR 2016 – WEST REGION

Enclosed are the main activities for PRASA and NON PRASA sections performed during the past fiscal year 2016:

1. **Follow Up Actions** - One-hundred (100) follow up actions were conducted due to PRASA's positive bacteriological samples and/or chemical samples above MCL's levels, NON-PRASA coliform positive samples, GWR implementation, low ( $< 0.2$  mg/l) free chlorine levels, PRASA Sanitary Surveys Corrective Action Plans, and other violations.
2. **Seminars Attendance** - We participate in one (1) seminar: Drinking Water Seminar.
3. **Filtration Plant Inspections** - At least Six (6) Inspections were conducted at PRASA Water Treatment Plant sites.
4. **Potable Water Storage Tanks inspected-** At least twenty-nine (29) inspections were conducted on raw and finished water tanks.
5. **Ground Wells inspected** - At least nine (9) Inspections were conducted on PRASA and NON-PRASA ground wells.
6. **Sanitary surveys** - At least nine (9) Sanitary Surveys PRASA and NON-PRASA were conducted.
7. **Check Inspections** - At least eight (8) Inspections were conducted at PRASA water treatment facilities.
8. **Complaints filed / resolved** - One water quality complaint was filed and resolved.

9. **Meetings Attended** – Around five (5) meetings with Puerto Rico Department of Health and/or PRASA/NON-PRASA staff.
10. **Pumping Station Inspections** - At least seventeen (17) Inspections were conducted at PRASA submergibles, vertical and horizontal pumping stations.
11. **About two (2) Boiling Water Orders and notifications were emitted to NON-PRASA Systems.**
12. **Others Activities-** Around twenty – six (26) miscellaneous activities were made.

**División de Agua Potable**

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ESTADO LIBRE ASOCIADO DE  
**PUERTO RICO**  
Departamento de Salud

*Secretaría Auxiliar para Salud Ambiental*  
*Drinking Water Division North Region*

January 24, 2016

Mr. Javier O. Torres, P.E.  
Acting Director  
Public Water Supply  
Supervision Program

*Jose M. Sánchez Vázquez*

Mr. José A. Sánchez, E.I.T.  
North Region Coordinator  
Drinking Water Division

*Marilyn Marrero*

Mrs. Marilyn Marrero, E.I.T.  
North Region Coordinator  
Drinking Water Division

### ***ANNUAL REPORT FOR FY-2016***

This is the summary of the main activities performed by the North Region of the Drinking Water Division during the Fiscal Year 2016.

1. We completed Thirteen Sanitary Surveys and Ninety-nine Inspections in which are included:
  - a) Thirty-one Pump Stations
  - b) Eleven Water Wells
  - c) Forty-nine Distribution Tanks
  - d) Eight Filtration Plants
2. We carried out nine hundred and eighty-eight samples of our routine bacteriological monitoring program follow up, complaints and others.


3. Two hundred sixty-three follow up actions were performed concerning to:
  - a) Positive results of bacteriological samples
  - b) Chlorine residuals violations
4. We performed seven technical assistances activities.
5. We received two complaint and were investigated.
6. We carried out thirty-one Enforcement activities.
7. We carried out thirteen check visits.
8. We made twenty-seven Water Boiling Orders notifications for positive results during the bacteriological monitoring for Non PRASA Systems.
9. We attended fifteen meetings.
10. We prepared two incident reports.
11. We carried out two hundred sixty two other activities concerning to the Division.
12. We participated in the evaluation and compliance of the Drinking Water Concern with PRASA and DOH.



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**PUERTO RICO**  
Departamento de Salud

January 24, 2017

Javier O. Torres, P.E.  
Director  
Public Water Supply Supervision Program



Eng. Enrique Rosado  
Team Leader East Region  
Public Water Supply Supervision Program

**REF: FY-16 Annual Report Summary**

For the FY-16 the East Region staff was constituted by Enrique Rosado and Javier Melendez. The main activities performed by our teamwork during this fiscal year are described below.

1. One hundred and forty **(140) follow-up** actions were performed including:
  - Complaints
  - Chlorine residuals in distribution systems
  - Positive results in bacteriological samples
  - Corrective action plans for deficiencies identified during field visits
2. One hundred and seventy **(170) technical assistances** were provided.
3. Seventy-six **(76) drinking water system operators' certifications** were reviewed.
4. One **(1) seminar** or training was given:

**October 2015**

- RTCR Level 1 Evaluation Training Workshop- PR Public Water Supply Supervision Program

5. Eight **(8) seminars** or trainings were attended:

**October 2015**

- 20th Drinking Water Seminar, sponsored by PRDOH, USEPA, AWWA, AIDIS, and the academic sector

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**División de Agua Potable**

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**February 2016**

- Government Ethics Law seminar – Office of Government Ethics

**March 2016**

- Productivity Ethics in Government seminar– Office of Government Ethics
- Rapid Response to Suicide Tendencies in the Workplace seminar– Office of Government Ethics
- Finding Solution to Government Corruption seminar– Office of Government Ethics


6. Six (6) **filtration plants inspections** were performed.
7. One hundred and forty-three (143) **PRASA and Non PRASA tanks** were inspected.
8. Nine (9) **ground water components** were inspected.
9. Forty-four (44) **sanitary surveys to PRASA and Non PRASA systems** were performed.
10. Fifty-three (53) **check-up visits to PRASA and Non PRASA systems** were done.
11. Ninety-six (96) **boiling water notifications** were issued to Non PRASA systems.
12. Seventy-six (76) **pumping stations** were inspected.
13. Ten (10) **complaints** in PRASA and Non PRASA systems were addressed.
14. One (1) **incident notification** to PRASA was issued.
15. Twenty-three (23) **meetings** were attended, including the following:
  - Staff meetings
  - Meetings in conjunction with PRASA East Region staff regarding PRASA transactional agreement and other compliance issues
  - Meetings with Non PRASA communities in order to provide them technical assistance to bring their systems into compliance with the drinking water regulation
16. **Other activities** performed during this fiscal year include:
  - Evaluation of filtration plants monthly reports for turbidity and chlorine residual

- Preparation of the bacteriological sampling surveillance program and the corresponding coordination with the PRDOH inspectors
- Preparation of bacteriological compliance and surveillance monthly report for PRASA and Non PRASA systems
- Sampling points certification for bacteriological, THM, HAA5 parameters.
- Participation in a drill exercise as part of the implementation of an emergency response plan in Non PRASA community water systems.
- Coordination of inspections and the PRDOH approval process of the filtration plants included the Partial Automated Operation Program of PRASA.

*Commonwealth of Puerto Rico  
Puerto Rico Department of Health  
Auxiliary Secretariat for Environmental Health  
Public Water Supply Supervision Program*

Date: January 30, 2017

To: Javier O. Torres, PE  
Director  
Public Water Supply Supervision Division  
Puerto Rico Department of Health

From:   
Ana M. Mendoza Rivera, MEH, MT (ASCP)  
Coordinator, Non PRASA Section

Subject: FY-16 Annual Report Summary

This report summarizes the work done during Fiscal Year 2016 by Ana M. Mendoza Rivera as an Environmental Specialist with the PRDOH Public Water Supply Supervision Division.

The following list summarizes the activities performed during the period of FY16 (October 2015 to September 2016):

1. Seventy (70) enforcement actions
  - Several bacteriological and chemical Notices of Violation and Administrative Orders were issued to Non PRASA systems for bacteriological and chemical sample reports.
2. One hundred eighty-two (182) follow up actions:
  - Evaluation and registry of the Non PRASA reports of compliance laboratory samples.
  - Warning letters issued due to detection of chemical contaminants.
  - Brought up to date systems information.
  - Follow up to MR violations (bacteriological and chemical)
  - Evaluation for sampling reductions.
  - Revision and bringing up to date the file of non PRASA systems that include schools.
  - Letter for systems registration.
  - Preparation of chemical sampling programs.
  - Evaluation of sampling reports

3. One hundred thirty-eight (138) technical assistance:
  - To systems owners about National Regulations, NOV's and sampling programs.
  - To graduate students about regulations, sanitary surveys and other issues about Non PRASA systems.
  - To the coordinators of our Office about the compliance of the systems.
  - To university professors about regulated contaminants.
  - To AAA personnel about the availability to connect some systems to PRASA.
  - To private consultant firms about Primary Drinking Water Standards.
  - To government agencies about requirements for the creation of a public water systems.
  - Participation in a project of the Department of State for the Non-PRASA systems
  - Orientation to systems' owners about the Siting Plan that all the system were required to elaborate for the Revised Total Coliform Rule (RTCR).
  -
4. Eleven (11) seminars and workshops attended:
  - Non-PRASA Workgroup
  - Drinking Water Workshop
  - Webinar-Financial Health Check-up for Water Utilities
  - Required Workshops of Governmental Ethics
5. Forty-seven (47) work meetings:
  - Several Staff Meetings.
  - Meetings with the Director of the Public Water Supply Supervision Division (PWSSD).
  - Meetings with different members of the PWSSP to discuss different issues.
  - Meetings with some members of communities and/or companies for orientation and different issues of their systems.
  - Meetings with governmental and non-goernmental agencies for Non-PRASA projects
6. One hundred eighty-one (181) other PWSSP activities.
  - Study of the 40 CFR on different rules.
  - Evaluation of Work Plans.
  - Preparation of different type of reports.
  - Reply to correspondence.
  - Preparation of Sampling Programs.
  - Preparation of documents of the creation or deactivation of systems.

- Participation in a Small Community Committee
- Preparation of the document of Non-PRASA Strategy
- Work in new Achievements Report
- Translation of RTCR documents for community systems





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**PUERTO RICO**  
Departamento de Salud

December 1, 2016

Javier O. Torres, PE

Director

Public Water Supply Supervision Program

Sonia I. Ferrer, MEH

Lead & Copper Rule, Coordinator

Public Water Supply Supervision Program

Re: Annual Report Summary

Fiscal Year 2016 (Oct. 2015-Sept. 2016)

The information below summarizes the activities performed the Lead & Copper Rule Coordinator. The LCR has four main functions: 1-require water suppliers to optimize their treatment system to control corrosion in customer's plumbing; 2-determine tap water levels of lead and copper for customers who have lead service lines or lead-based solder in their plumbing systems; 3-rue out the source water as a source of significant lead levels; and 4-if action levels are exceeded, require the suppliers to educate their through public notices and public educational programs. If a water systems, after installing and optimizing corrosion control treatment, continues to fail to meet the lead action level, it must begin replacing the lead service lines under its ownership. Large systems serving more than 50,000 people were required to conduct studies of corrosion control and to install the state-approved optimal corrosion control treatment by January1, 1997. Small and medium sized systems are required to optimize corrosion control when monitoring at the consumer taps show action is necessary.

The following is a general summary of the main activities performed for the PRASA and Non-PRASA systems:

1. Forty-four (44) enforcement / follow up (letters) actions about:
  - Notices of Violation.
  - Notice of exceedance for lead and copper action levels
  - Request corrosion control treatment studies.

- Initial or follow lead and copper tap monitoring.
  - Initial or follow – Water Quality Parameters (WQP) / Source Water.
  - Reduced lead and copper tap monitoring.
  - Treatment Recommendations: Approve treatment, alternatives, and require further treatment studies.
  - Public Educations /Public Notifications /Lead Consumer Notice / Administrative Orders.
2. One hundred and eighty-seven (187) follow up actions were performed including:
- Complaints of LCR (Phone, fax, emails, mail).
3. Eleven (11) technical assistances were provided:
- Phone calls or in person.
4. Cero (0) seminar or trainings was attended:
- Drinking Water Seminar was not performed this year.
5. Other Activities were performed during the fiscal year:
- The lead and copper sampling programs were coordinated for all water systems.
  - The 90<sup>th</sup> percentile levels were calculated and evaluated in order to determine regulatory compliance for all water systems.
  - All Desktop Evaluations were received, reviewed and processed in order to determine regulatory compliance for water systems.
  - Preparation of different types of lead and copper reports (Mid Year, End of Year, Annual Report, others) for the Data Management, Enforcement Section and Environmental Protection Agency.
  - Special report "Lead Ban", (January to December 2015) was prepared.
  - Revision of the compliance reporting requirements of the Public Education.
  - Revision of the compliance reporting requirements of the Lead Consumer Notice.
  - Revision of the compliance WQP monitoring reports for all water systems.
  - Technical assistance to all Non-PRASA systems regarding requirements of the Lead and Copper Rule.
  - PRASA/DOH Transactional Agreement enforcement and follow up actions of LCR.
  - Regulatory compliance of the recordkeeping requirements for all water systems.



February 1, 2017

Mr. Javier Torres, P.E.  
Director Public Water Supply  
Supervision Program

Mr. Arnaldo R. Aponte Zayas  
Computer Processing Section (CPS)  
Public Water Supply  
Supervision Program

**RE: ANNUAL REPORT FY-16**

Achievements during FY-16:

1. The statistics for the Annual Report FY-16 were prepared.
2. The report for SDWIS was sent on time to U.S. E.P.A.
3. Export Data Violations MR-Bact. From DBF to SDWIS format.
4. Technical assistance support on data management and / or computer program were given to PWSS staff.
5. The inventory was actualized for PRASA and Non-PRASA system.
6. Issued monthly Public Notification to Non-PRASA systems with MCL and MR violations.
7. Technical assistance support to Non-PRASA Systems for CCR (Consumer Confidence Report).
8. The following files were reported quarterly to U.S. E.P.A., Region II using Safe Drinking Water Information System (SDWIS). For PRASA and Non-PRASA systems.
  - a. Inventory
  - b. Violations (MCL-MR)
  - c. Enforcement Actions
  - d. Samples



ACTIVIDADES DE SISTEMAS NON-PRASA & PRASA		FY-16
Acciones de "Enforcement" TOTAL		213
Acciones de "Enforcement" NON-PRASA		117
Acciones de "Enforcement" PRASA		96
Acciones de Seguimiento TOTAL		3312
Acciones de Seguimiento NON-PRASA		873
Acciones de Seguimiento PRASA		2439
Asesoramiento Tecnico TOTAL		474
Asesoramiento Tecnico NON-PRASA		368
Asesoramiento Tecnico PRASA		75
Asesoramiento Tecnico SECC. REV. PLANOS		31
Certificación de Operadores PRASA		165
Seminarios y/o Adiestramientos Ofrecidos TOTAL		1
Seminarios y/o Adiestramientos Ofrecidos NON-PRA		0
Seminarios y/o Adiestramientos Ofrecidos PRASA		1
Seminarios y/o Adiest. Ofrecidos SECC. REV. PLAN		0
Seminarios y/o Adiestramientos Recibidos TOTAL		40
Seminarios y/o Adiestramientos Recibidos NON-PRA		15
Seminarios y/o Adiestramientos Recibidos PRASA		25
Charlas Ofrecidas TOTAL		3
Charlas Ofrecidas NON-PRASA		1
Charlas Ofrecidas PRASA		2
Charlas Recibidas TOTAL		3
Charlas Recibidas NON-PRASA		2
Charlas Recibidas PRASA		1
Revisión de Reglamentos, Leyes y Proyectos TOTAL		1
Preparación de Manuales y Hojas Informativas TOTAL		3
Preparación de Manuales y Hojas Inf. NON-PRASA		3
Preparación de Manuales y Hojas Inf. PRASA		0
Participación Pública TOTAL		0
Participación Pública NON-PRASA		0
Participación Pública PRASA		0
Investigación sobre contaminación Microbiológica TO		1
Inv. sobre contaminación Microbiológica NON-PRAS.		0
Inv. sobre contaminación Microbiológica PRASA		1
Investigación sobre contaminación Química TOTAL		6
Inv. sobre contaminación Química NON-PRASA		0
Inv. sobre contaminación Química PRASA		6
Investigación sobre Conexiones Cruzadas TOTAL		10
Investigación sobre Conexiones Cruzadas NON-PRAS.		10
Investigación sobre Conexiones Cruzadas PRASA		0

ACTIVIDADES DE SISTEMAS NON-PRASA & PRASA		FY-16
INSPECCIONES NON-PRASA + PRASA + SECC. REV PLANOS		559
NON-PRASA		
TOTAL INSPECCIONES NON-PRASA Y COMPONENTES		161
Inspecciones a Sistemas Comunales y Componentes		154
Inspecciones a Sistemas No-Comunai & Nontransien		7
TOTAL Insp. Sistemas sirven menos 25 pers. NON-PRA		1
PRASA		
TOTAL INSPECCIONES PRASA Y COMPONENTES		383
Inspecciones a Plantas de Filtración PRASA		36
Inspecciones a Tanques PRASA		302
Inspecciones a Pozos PRASA		43
Inspecciones a Acueductos Rurales PRASA		0
Inspecciones a Cisternas PRASA		0
Insp. Sistemas que sirven menos 25 pers. PRASA		2
TOTAL INSPECCIONES PLAN REVIEW		14
Inspecciones a Proyectos SECC. REV. PLANOS		14
Reinspecciones a Proyectos SECC. REV. PLANOS		0
Encuestas Sanitarias TOTAL		134
Encuestas Sanitarias NON-PRASA		86
Encuestas Sanitarias PRASA		48
Visitas de Cotejo a Sistemas TOTAL		140
Visitas de Cotejo a Sistemas NON-PRASA		54
Visitas de Cotejo a Sistemas PRASA		86
Ordenes de Hervir el Agua,Notif. Públicas NON-PRASA		2041
Querellas Recibidas TOTAL		19
Querellas Recibidas NON-PRASA		4
Querellas Recibidas PRASA		15
Reuniones TOTAL		154
Reuniones NON-PRASA		78
Reuniones PRASA		73
Reuniones A.A.A. SECC. REV. PLANOS		1
Reuniones Consultores Privados SECC. REV. PLANOS		2
Reuniones Otras SECC. REV. PLANOS		0
Endosos Preliminares SECC. REV. PLANOS		0
Proyectos Revisados Sometidos SECC. REV. PLANOS		34
Proyectos No Endosados SECC. REV. PLANOS		25
Proyectos Aprobados SECC. REV. PLANOS		9
C P R SISTEMAS PRASA		0
Notificación de Incidente		14
Inspección a Estaciones de Bombeo		214

ACTIVIDADES DE SISTEMAS PRASA		OCT-2015	ACUM.	TOTAL
1.	Acciones de "Enforcement"	9	0	9
2.	Acciones de Seguimiento	130	0	130
3.	Asesoramiento Técnico	2	0	2
	Certificación de Operadores	10	0	10
4.	Seminarios y/o Adiestramientos Ofrecidos	1	0	1
5.	Seminarios y/o Adiestramientos Recibidos	8	0	8
6.	Charlas Ofrecidas	1	0	1
7.	Charlas Recibidas	0	0	0
8.	Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9.	Preparación de Manuales y Hojas Informativas	0	0	0
10.	Participación Pública	0	0	0
11.	Investigación sobre contaminación Microbiológ	0	0	0
12.	Investigación sobre contaminación Química	1	0	1
13.	Investigación sobre Conexiones Cruzadas	0	0	0
14.	Inspecciones a Plantas de Filtración	1	0	1
15.	Inspecciones a Tanques	5	0	5
16.	Inspecciones a Pozos	4	0	4
17.	Inspecciones a Acueductos Rurales	0	0	0
18.	Inspecciones a Cisternas	0	0	0
19.	Inspecc. a Sistemas que sirven menos 25 pers	0	0	0
20.	Encuestas Sanitarias	1	0	1
21.	Visitas de Cotejo	15	0	15
22.	Querellas Recibidas	3	0	3
23.	Querellas Resueltas	3	0	3
24.	Reuniones	15	0	15
25.	C P E	0	0	0
26.	Otras Actividades	475	0	475

ACTIVIDADES DE SISTEMAS PRASA		NOV-2015	ACUM.	TOTAL
1. Acciones de "Enforcement"		9	9	18
2. Acciones de Seguimiento		110	130	240
3. Asesoramiento Técnico		5	2	7
Certificación de Operadores		12	10	22
4. Seminarios y/o Adiestramientos Ofrecidos		0	1	1
5. Seminarios y/o Adiestramientos Recibidos		1	8	9
6. Charlas Ofrecidas		0	1	1
7. Charlas Recibidas		0	0	0
8. Revisión de Reglamentos, Leyes y Proyectos		0	0	0
9. Preparación de Manuales y Hojas Informativas		0	0	0
10. Participación Pública		0	0	0
11. Investigación sobre contaminación Microbiológ		0	0	0
12. Investigación sobre contaminación Química		0	1	1
13. Investigación sobre Conexiones Cruzadas		0	0	0
14. Inspecciones a Plantas de Filtración		4	1	5
15. Inspecciones a Tanques		34	5	39
16. Inspecciones a Pozos		3	4	7
17. Inspecciones a Acueductos Rurales		0	0	0
18. Inspecciones a Cisternas		0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers		0	0	0
20. Encuestas Sanitarias		6	1	7
21. Visitas de Cotejo		4	15	19
22. Querellas Recibidas		0	3	3
23. Querellas Resueltas		0	3	3
24. Reuniones		7	15	22
25. C P E		0	0	0
26. Otras Actividades		531	475	1006



ACTIVIDADES DE SISTEMAS PRASA	DIC-2015	ACUM.	TOTAL
1. Acciones de "Enforcement"	3	18	21
2. Acciones de Seguimiento	128	240	368
3. Asesoramiento Técnico	2	7	9
Certificación de Operadores	7	22	29
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	0	9	9
6. Charlas Ofrecidas	0	1	1
7. Charlas Recibidas	0	0	0
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológ	0	0	0
12. Investigación sobre contaminación Química	0	1	1
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	1	5	6
15. Inspecciones a Tanques	15	39	54
16. Inspecciones a Pozos	4	7	11
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers	0	0	0
20. Encuestas Sanitarias	3	7	10
21. Visitas de Cotejo	6	19	25
22. Querellas Recibidas	0	3	3
23. Querellas Resueltas	0	3	3
24. Reuniones	7	22	29
25. C P E	0	0	0
26. Otras Actividades	381	1006	1387

ACTIVIDADES DE SISTEMAS PRASA	ENE-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	5	21	26
2. Acciones de Seguimiento	103	368	471
3. Asesoramiento Técnico	12	9	21
Certificación de Operadores	5	29	34
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	1	9	10
6. Charlas Ofrecidas	0	1	1
7. Charlas Recibidas	0	0	0
8. Revisión de Réglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológ	0	0	0
12. Investigación sobre contaminación Química	1	1	2
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	2	6	8
15. Inspecciones a Tanques	11	54	65
16. Inspecciones a Pozos	0	11	11
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers	0	0	0
20. Encuestas Sanitarias	3	10	13
21. Visitas de Cotejo	4	25	29
22. Querellas Recibidas	1	3	4
23. Querellas Resueltas	1	3	4
24. Reuniones	7	29	36
25. C P E	0	0	0
26. Otras Actividades	537	1387	1924

ACTIVIDADES DE SISTEMAS PRASA	FEB-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	15	26	41
2. Acciones de Seguimiento	171	471	642
3. Asesoramiento Técnico	12	21	33
Certificación de Operadores	10	34	44
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	5	10	15
6. Charlas Ofrecidas	0	1	1
7. Charlas Recibidas	1	0	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	2	2	4
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	1	8	9
15. Inspecciones a Tanques	14	65	79
16. Inspecciones a Pozos	2	11	13
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers.	0	0	0
20. Encuestas Sanitarias	3	13	16
21. Visitas de Cotejo	9	29	38
22. Querellas Recibidas	1	4	5
23. Querellas Resueltas	1	4	5
24. Reuniones	4	36	40
25. C P E	0	0	0
26. Otras Actividades	666	1924	2590

ACTIVIDADES DE SISTEMAS PRASA	MAR-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	10	41	51
2. Acciones de Seguimiento	291	642	933
3. Asesoramiento Técnico	7	33	40
Certificación de Operadores	20	44	64
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	6	15	21
6. Charlas Ofrecidas	0	1	1
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológ	0	0	0
12. Investigación sobre contaminación Química	0	4	4
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	2	9	11
15. Inspecciones a Tanques	12	79	91
16. Inspecciones a Pozos	9	13	22
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers	0	0	0
20. Encuestas Sanitarias	5	16	21
21. Visitas de Cotejo	9	38	47
22. Querellas Recibidas	0	5	5
23. Querellas Resueltas	0	5	5
24. Reuniones	9	40	49
25. C P E	0	0	0
26. Otras Actividades	609	2590	3199

ACTIVIDADES DE SISTEMAS PRASA	ABR-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	16	51	67
2. Acciones de Seguimiento	317	933	1250
3. Asesoramiento Técnico	11	40	51
Certificación de Operadores	21	64	85
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	2	21	23
6. Charlas Ofrecidas	1	1	2
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológ	1	0	1
12. Investigación sobre contaminación Química	1	4	5
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	2	11	13
15. Inspecciones a Tanques	19	91	110
16. Inspecciones a Pozos	2	22	24
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers	0	0	0
20. Encuestas Sanitarias	4	21	25
21. Visitas de Cotejo	5	47	52
22. Querellas Recibidas	0	5	5
23. Querellas Resueltas	0	5	5
24. Reuniones	2	49	51
25. C P E	0	0	0
26. Otras Actividades	665	3199	3864

ACTIVIDADES DE SISTEMAS PRASA	MAY-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	4	67	71
2. Acciones de Seguimiento	284	1250	1534
3. Asesoramiento Técnico	5	51	56
Certificación de Operadores	15	85	100
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	1	23	24
6. Charlas Ofrecidas	0	2	2
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológ	0	1	1
12. Investigación sobre contaminación Química	0	5	5
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	0	13	13
15. Inspecciones a Tanques	11	110	121
16. Inspecciones a Pozos	0	24	24
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers	0	0	0
20. Encuestas Sanitarias	0	25	25
21. Visitas de Cotejo	7	52	59
22. Querellas Recibidas	1	5	6
23. Querellas Resueltas	1	5	6
24. Reuniones	8	51	59
25. C P E	0	0	0
26. Otras Actividades	575	3864	4439

ACTIVIDADES DE SISTEMAS PRASA	JUN-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	6	71	77
2. Acciones de Seguimiento	167	1534	1701
3. Asesoramiento Técnico	9	56	65
Certificación de Operadores	13	100	113
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	0	24	24
6. Charlas Ofrecidas	0	2	2
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológ	0	1	1
12. Investigación sobre contaminación Química	0	5	5
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	4	13	17
15. Inspecciones a Tanques	74	121	195
16. Inspecciones a Pozos	4	24	28
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers	0	0	0
20. Encuestas Sanitarias	5	25	30
21. Visitas de Cotejo	3	59	62
22. Querellas Recibidas	3	6	9
23. Querellas Resueltas	3	6	9
24. Reuniones	4	59	63
25. C P E	0	0	0
26. Otras Actividades	423	4439	4862

ACTIVIDADES DE SISTEMAS PRASA	JUL-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	3	77	80
2. Acciones de Seguimiento	130	1701	1831
3. Asesoramiento Técnico	3	65	68
Certificación de Operadores	8	113	121
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	0	24	24
6. Charlas Ofrecidas	0	2	2
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológ	0	1	1
12. Investigación sobre contaminación Química	0	5	5
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	2	17	19
15. Inspecciones a Tanques	0	195	195
16. Inspecciones a Pozos	0	28	28
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers	0	0	0
20. Encuestas Sanitarias	1	30	31
21. Visitas de Cotejo	9	62	71
22. Querellas Recibidas	3	9	12
23. Querellas Resueltas	3	9	12
24. Reuniones	1	63	64
25. C P E	0	0	0
26. Otras Actividades	339	4862	5201



ACTIVIDADES DE SISTEMAS PRASA	AGO-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	8	80	88
2. Acciones de Seguimiento	286	1831	2117
3. Asesoramiento Técnico	3	68	71
Certificación de Operadores	20	121	141
4. Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5. Seminarios y/o Adiestramientos Recibidos	0	24	24
6. Charlas Ofrecidas	0	2	2
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológ	0	1	1
12. Investigación sobre contaminación Química	0	5	5
13. Investigación sobre Conexiones Cruzadas	0	0	0
14. Inspecciones a Plantas de Filtración	5	19	24
15. Inspecciones a Tanques	74	195	269
16. Inspecciones a Pozos	3	28	31
17. Inspecciones a Acueductos Rurales	0	0	0
18. Inspecciones a Cisternas	0	0	0
19. Inspecc. a Sistemas que sirven menos 25 pers	1	0	1
20. Encuestas Sanitarias	4	31	35
21. Visitas de Cotejo	4	71	75
22. Querellas Recibidas	2	12	14
23. Querellas Resueltas	2	12	14
24. Reuniones	6	64	70
25. C P E	0	0	0
26. Otras Actividades	694	5201	5895

ACTIVIDADES DE SISTEMAS PRASA		SEP-2016	ACUM.	TOTAL
1.	Acciones de "Enforcement"	8	88	96
2.	Acciones de Seguimiento	322	2117	2439
3.	Asesoramiento Técnico	4	71	75
Certificación de Operadores		24	141	165
4.	Seminarios y/o Adiestramientos Ofrecidos	0	1	1
5.	Seminarios y/o Adiestramientos Recibidos	1	24	25
6.	Charlas Ofrecidas	0	2	2
7.	Charlas Recibidas	0	1	1
8.	Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9.	Preparación de Manuales y Hojas Informativas	0	0	0
10.	Participación Pública	0	0	0
11.	Investigación sobre contaminación Microbiológica	0	1	1
12.	Investigación sobre contaminación Química	1	5	6
13.	Investigación sobre Conexiones Cruzadas	0	0	0
14.	Inspecciones a Plantas de Filtración	12	24	36
15.	Inspecciones a Tanques	33	269	302
16.	Inspecciones a Pozos	12	31	43
17.	Inspecciones a Acueductos Rurales	0	0	0
18.	Inspecciones a Cisternas	0	0	0
19.	Inspecc. a Sistemas que sirven menos 25 personas	1	1	2
20.	Encuestas Sanitarias	13	35	48
21.	Visitas de Cotejo	11	75	86
22.	Querellas Recibidas	1	14	15
23.	Querellas Resueltas	1	14	15
24.	Reuniones	3	70	73
25.	C P E	0	0	0
26.	Otras Actividades	581	5895	6476

ACTIVIDADES DE SISTEMAS NON-PRASA	OCT-2015	ACUM.	TOTAL
1. Acciones de "Enforcement"	2	0	2
2. Acciones de Seguimiento	42	0	42
3. Asesoramiento Técnico	57	0	57
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	3	0	3
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	0	0
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	0	0
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	1	0	1
14. Inspecciones a Sistemas Comunales	1	0	1
15. Inspecciones a Sistemas No-Comunal & Nontransien	0	0	0
16. Inspecciones a Tanques	1	0	1
17. Inspecciones a Cisternas	0	0	0
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	1	0	1
20. Visitas de Cotejo a Sistemas	0	0	0
21. Ordenes de Hervir el Agua,Notificaciones Pública	11	0	11
22. Querellas Recibidas	0	0	0
23. Querellas Resueltas	0	0	0
24. Reuniones	3	0	3
25. Otras Actividades	100	0	100

ACTIVIDADES DE SISTEMAS NON-PRASA	NOV-2015	ACUM.	TOTAL
1. Acciones de "Enforcement"	3	2	5
2. Acciones de Seguimiento	73	42	115
3. Asesoramiento Técnico	54	57	111
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	1	3	4
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	0	0
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	3	0	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	0	1	1
14. Inspecciones a Sistemas Comunales	3	1	4
15. Inspecciones a Sistemas No-Comunal & Nontransien	1	0	1
16. Inspecciones a Tanques	6	1	7
17. Inspecciones a Cisternas	1	0	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	4	1	5
20. Visitas de Cotejo a Sistemas	5	0	5
21. Ordenes de Hervir el Agua,Notificaciones Pública	27	11	38
22. Querellas Recibidas	0	0	0
23. Querellas Resueltas	0	0	0
24. Reuniones	6	3	9
25. Otras Actividades	98	100	198

ACTIVIDADES DE SISTEMAS NON-PRASA	DIC-2015	ACUM.	TOTAL
1. Acciones de "Enforcement"	2	5	7
2. Acciones de Seguimiento	54	115	169
3. Asesoramiento Técnico	37	111	148
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	1	4	5
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	0	0
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	3	1	4
14. Inspecciones a Sistemas Comunales	4	4	8
15. Inspecciones a Sistemas No-Comunal & Nontransien	0	1	1
16. Inspecciones a Tanques	9	7	16
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	5	5	10
20. Visitas de Cotejo a Sistemas	0	5	5
21. Ordenes de Hervir el Agua,Notificaciones Pública	33	38	71
22. Querellas Recibidas	0	0	0
23. Querellas Resueltas	0	0	0
24. Reuniones	9	9	18
25. Otras Actividades	84	198	282

ACTIVIDADES DE SISTEMAS NON-PRASA	ENE-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	4	7	11
2. Acciones de Seguimiento	73	169	242
3. Asesoramiento Técnico	17	148	165
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	1	5	6
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	1	0	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	2	4	6
14. Inspecciones a Sistemas Comunales	4	8	12
15. Inspecciones a Sistemas No-Comunal & Nontransien	1	1	2
16. Inspecciones a Tanques	7	16	23
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	4	10	14
20. Visitas de Cotejo a Sistemas	11	5	16
21. Ordenes de Hervir el Agua,Notificaciones Pública	34	71	105
22. Querellas Recibidas	0	0	0
23. Querellas Resueltas	0	0	0
24. Reuniones	6	18	24
25. Otras Actividades	88	282	370

ACTIVIDADES DE SISTEMAS NON-PRASA	FEB-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	2	11	13
2. Acciones de Seguimiento	94	242	336
3. Asesoramiento Técnico	35	165	200
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	0	6	6
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	0	6	6
14. Inspecciones a Sistemas Comunales	4	12	16
15. Inspecciones a Sistemas No-Comunal & Nontransien	0	2	2
16. Inspecciones a Tanques	4	23	27
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	5	14	19
20. Visitas de Cotejo a Sistemas	9	16	25
21. Ordenes de Hervir el Agua,Notificaciones Pública	32	105	137
22. Querellas Recibidas	1	0	1
23. Querellas Resueltas	1	0	1
24. Reuniones	7	24	31
25. Otras Actividades	93	370	463

ACTIVIDADES DE SISTEMAS NON-PRASA	MAR-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	9	13	22
2. Acciones de Seguimiento	80	336	416
3. Asesoramiento Técnico	24	200	224
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	6	6	12
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	0	6	6
14. Inspecciones a Sistemas Comunales	4	16	20
15. Inspecciones a Sistemas No-Comunal & Nontransien	0	2	2
16. Inspecciones a Tanques	5	27	32
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	5	19	24
20. Visitas de Cotejo a Sistemas	2	25	27
21. Ordenes de Hervir el Agua,Notificaciones Pública	30	137	167
22. Querellas Recibidas	0	1	1
23. Querellas Resueltas	0	1	1
24. Reuniones	9	31	40
25. Otras Actividades	93	463	556



ACTIVIDADES DE SISTEMAS NON-PRASA	ABR-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	15	22	37
2. Acciones de Seguimiento	63	416	479
3. Asesoramiento Técnico	42	224	266
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	1	12	13
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	0	6	6
14. Inspecciones a Sistemas Comunales	7	20	27
15. Inspecciones a Sistemas No-Comunal & Nontransien	0	2	2
16. Inspecciones a Tanques	13	32	45
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	10	24	34
20. Visitas de Cotejo a Sistemas	8	27	35
21. Ordenes de Hervir el Agua,Notificaciones Pública	25	167	192
22. Querellas Recibidas	1	1	2
23. Querellas Resueltas	1	1	2
24. Reuniones	9	40	49
25. Otras Actividades	85	556	641

ACTIVIDADES DE SISTEMAS NON-PRASA	MAY-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	8	37	45
2. Acciones de Seguimiento	104	479	583
3. Asesoramiento Técnico	30	266	296
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	2	13	15
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	1	1
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	0	6	6
14. Inspecciones a Sistemas Comunales	7	27	34
15. Inspecciones a Sistemas No-Comunal & Nontransien	0	2	2
16. Inspecciones a Tanques	22	45	67
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	13	34	47
20. Visitas de Cotejo a Sistemas	1	35	36
21. Ordenes de Hervir el Agua,Notificaciones Pública	46	192	238
22. Querellas Recibidas	0	2	2
23. Querellas Resueltas	0	2	2
24. Reuniones	9	49	58
25. Otras Actividades	92	641	733

ACTIVIDADES DE SISTEMAS NON-PRASA	JUN-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	7	45	52
2. Acciones de Seguimiento	54	583	637
3. Asesoramiento Técnico	25	296	321
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	0	15	15
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	1	1	2
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	0	6	6
14. Inspecciones a Sistemas Comunales	4	34	38
15. Inspecciones a Sistemas No-Comunal & Nontransien	1	2	3
16. Inspecciones a Tanques	5	67	72
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	6	47	53
20. Visitas de Cotejo a Sistemas	3	36	39
21. Ordenes de Hervir el Agua,Notificaciones Pública	25	238	263
22. Querellas Recibidas	2	2	4
23. Querellas Resueltas	2	2	4
24. Reuniones	9	58	67
25. Otras Actividades	84	733	817

ACTIVIDADES DE SISTEMAS NON-PRASA	JUL-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	26	52	78
2. Acciones de Seguimiento	83	637	720
3. Asesoramiento Técnico	18	321	339
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	0	15	15
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	2	2
8. Revisión de Reglamentos, Leyes y Proyectos	0	0	0
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	0	6	6
14. Inspecciones a Sistemas Comunales	2	38	40
15. Inspecciones a Sistemas No-Comunal & Nontransien	1	3	4
16. Inspecciones a Tanques	14	72	86
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	0	0	0
19. Encuestas Sanitarias	13	53	66
20. Visitas de Cotejo a Sistemas	2	39	41
21. Ordenes de Hervir el Agua,Notificaciones Pública	23	263	286
22. Querellas Recibidas	0	4	4
23. Querellas Resueltas	0	4	4
24. Reuniones	3	67	70
25. Otras Actividades	78	817	895

ACTIVIDADES DE SISTEMAS NON-PRASA	AGO-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	13	78	91
2. Acciones de Seguimiento	79	720	799
3. Asesoramiento Técnico	12	339	351
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	0	15	15
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	2	2
8. Revisión de Reglamentos, Leyes y Proyectos	1	0	1
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	3	6	9
14. Inspecciones a Sistemas Comunales	0	40	40
15. Inspecciones a Sistemas No-Comunal & Nontransien	0	4	4
16. Inspecciones a Tanques	13	86	99
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	1	0	1
19. Encuestas Sanitarias	10	66	76
20. Visitas de Cotejo a Sistemas	6	41	47
21. Ordenes de Hervir el Agua,Notificaciones Pública	49	286	335
22. Querellas Recibidas	0	4	4
23. Querellas Resueltas	0	4	4
24. Reuniones	6	70	76
25. Otras Actividades	153	895	1048

ACTIVIDADES DE SISTEMAS NON-PRASA	AGO-2016	ACUM.	TOTAL
1. Acciones de "Enforcement"	13	78	91
2. Acciones de Seguimiento	79	720	799
3. Asesoramiento Técnico	12	339	351
4. Seminarios y/o Adiestramientos Ofrecidos	0	0	0
5. Seminarios y/o Adiestramientos Recibidos	0	15	15
6. Charlas Ofrecidas	0	0	0
7. Charlas Recibidas	0	2	2
8. Revisión de Reglamentos, Leyes y Proyectos	1	0	1
9. Preparación de Manuales y Hojas Informativas	0	3	3
10. Participación Pública	0	0	0
11. Investigación sobre contaminación Microbiológica	0	0	0
12. Investigación sobre contaminación Química	0	0	0
13. Investigación sobre Conexiones Cruzadas	3	6	9
14. Inspecciones a Sistemas Comunales	0	40	40
15. Inspecciones a Sistemas No-Comunal & Nontransien	0	4	4
16. Inspecciones a Tanques	13	86	99
17. Inspecciones a Cisternas	0	1	1
18. Inspecc. a Sistemas que sirven menos 25 persona	1	0	1
19. Encuestas Sanitarias	10	66	76
20. Visitas de Cotejo a Sistemas	6	41	47
21. Ordenes de Hervir el Agua,Notificaciones Pública	49	286	335
22. Querellas Recibidas	0	4	4
23. Querellas Resueltas	0	4	4
24. Reuniones	6	70	76
25. Otras Actividades	153	895	1048

EVALUACION DE INFORMES	
SECCION REVISION DE PLANOS FY-16	TOTAL
1. Asesoramiento Tecnico	31
2. Endosos Preliminares	0
3. Adiestramientos	0
4. Proyectos Revisados Sometidos	34
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)	25
6. Proyectos Aprobados Fy Actual	9
7. Reuniones ( Total )	3
a. A. A. A	1
b.Consultores Privados	2
c. Otras	0
8. Inspecciones a Proyectos	14
9. Re-inspecciones a Proyectos	0

EVALUACION DE INFORMES MENSUALES				
OCT-2015	SECCION REV. PLANOS			
		ACTUAL	ACUM	TOTAL
1. Asesoramiento Tecnico		2	0	2
2. Endosos Preliminares		0	0	0
3. Adiestramientos		0	0	0
4. Proyectos Revisados Sometidos		8	0	8
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		6	0	6
6. Proyectos Aprobados Fy Actual		2 0	0	2
7. Reuniones ( Total )		0	0	0
a. A. A. A		0	0	0
b.Consultores Privados		0	0	0
c. Otras		0	0	0
8. Inspecciones a Proyectos		4	0	4
9. Re-inspecciones a Proyectos		0	0	0
NOV-2015	No.	SECCION REV. PLANOS		
		ACTUAL	ACUM	TOTAL
1. Asesoramiento Tecnico		2	2	4
2. Endosos Preliminares		0	0	0
3. Adiestramientos		0	0	0
4. Proyectos Revisados Sometidos		4	8	12
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		2	6	8
6. Proyectos Aprobados Fy Actual		2	2	4
7. Reuniones ( Total )		0	0	0
a. A. A. A		0	0	0
b.Consultores Privados		0	0	0
c. Otras		0	0	0
8. Inspecciones a Proyectos		2	4	6
9. Re-inspecciones a Proyectos		0	0	0



EVALUACION DE INFORMES MENSUALES					
DIC-2015	SECCION REV. PLANOS		ACTUAL	ACUM	TOTAL
	1. Asesoramiento Tecnico		2	4	6
	2. Endosos Preliminares		0	0	0
	3. Adiestramientos		0	0	0
	4. Proyectos Revisados Sometidos		3	12	15
	5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		3	8	11
	6. Proyectos Aprobados Fy Actual		0	4	4
	7. Reuniones ( Total )		2	0	2
	a. A. A. A		1	0	1
	b.Consultores Privados		1	0	1
	c. Otras		0	0	0
	8. Inspecciones a Proyectos		2	6	8
	9. Re-inspecciones a Proyectos		0	0	0
ENE-2016	No.	SECCION REV. PLANOS	ACTUAL	ACUM	TOTAL
		1. Asesoramiento Tecnico	3	6	9
		2. Endosos Preliminares	0	0	
		3. Adiestramientos	0	0	0
		4. Proyectos Revisados Sometidos	1	15	16
		5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)	0	11	11
		6. Proyectos Aprobados Fy Actual	1	4	5
		7. Reuniones ( Total )	0	2	2
		a. A. A. A	0	1	1
		b.Consultores Privados	0	1	1
		c. Otras	0	0	0
		8. Inspecciones a Proyectos	1	8	9
		9. Re-inspecciones a Proyectos	0	0	0

EVALUACION DE INFORMES MENSUALES				
FEB-2016	SECCION REV. PLANOS			
		ACTUAL	ACUM	TOTAL
1. Asesoramiento Tecnico		1	9	10
2. Endosos Preliminares		0	0	0
3. Adiestramientos		0	0	0
4. Proyectos Revisados Sometidos		1	16	17
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		1	11	12
6. Proyectos Aprobados Fy Actual		0	5	5
7. Reuniones ( Total )		1	2	3
a. A. A. A		0	1	1
b.Consultores Privados		1	1	2
c. Otras		0	0	0
8. Inspecciones a Proyectos		1	9	10
9. Re-inspecciones a Proyectos		0	0	0
MAR-2016	No.	SECCION REV. PLANOS		
		ACTUAL	ACUM	TOTAL
1. Asesoramiento Tecnico		3	10	13
2. Endosos Preliminares		0	0	0
3. Adiestramientos		0	0	0
4. Proyectos Revisados Sometidos		5	17	22
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		5	12	17
6. Proyectos Aprobados Fy Actual		0	5	5
7. Reuniones ( Total )		0	3	3
a. A. A. A		0	1	1
b.Consultores Privados		0	2	2
c. Otras		0	0	0
8. Inspecciones a Proyectos		0	10	10
9. Re-inspecciones a Proyectos		0	0	0

EVALUACION DE INFORMES MENSUALES				
ABR-2016	SECCION REV. PLANOS			
		ACTUAL	ACUM	TOTAL
1. Asesoramiento Tecnico		3	13	16
2. Endosos Preliminares		0	0	0
3. Adiestramientos		0	0	0
4. Proyectos Revisados Sometidos		5	22	27
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		2	17	19
6. Proyectos Aprobados Fy Actual		3	5	8
7. Reuniones ( Total )		0	3	3
a. A. A. A		0	1	1
b.Consultores Privados		0	2	2
c. Otras		0	0	0
8. Inspecciones a Proyectos		0	10	10
9. Re-inspecciones a Proyectos		0	0	0
MAY-2016	No.	SECCION REV. PLANOS		
		ACTUAL	ACUM	TOTAL
1. Asesoramiento Tecnico		4	16	20
2. Endosos Preliminares		0	0	0
3. Adiestramientos		0	0	0
4. Proyectos Revisados Sometidos		3	27	30
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		2	19	21
6. Proyectos Aprobados Fy Actual		1	8	9
7. Reuniones ( Total )		0	3	3
a. A. A. A		0	1	1
b.Consultores Privados		0	2	2
c. Otras		0	0	0
8. Inspecciones a Proyectos		0	10	10
9. Re-inspecciones a Proyectos		0	0	0

EVALUACION DE INFORMES MENSUALES						
JUN-2016		SECCION REV. PLANOS		ACTUAL	ACUM	TOTAL
1. Asesoramiento Tecnico				3	20	23
2. Endosos Preliminares				0	0	0
3. Adiestramientos				0	0	0
4. Proyectos Revisados Sometidos				4	30	34
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)				4	21	25
6. Proyectos Aprobados Fy Actual				0	9	9
7. Reuniones ( Total )				0	3	3
a. A. A. A				0	1	1
b.Consultores Privados				0	2	2
c. Otras				0	0	0
8. Inspecciones a Proyectos				0	10	10
9. Re-inspecciones a Proyectos				0	0	0
JUL-2016		No.	SECCION REV. PLANOS	ACTUAL	ACUM	TOTAL
1. Asesoramiento Tecnico				2	23	25
2. Endosos Preliminares				0	0	0
3. Adiestramientos				0	0	0
4. Proyectos Revisados Sometidos				0	34	34
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)				0	25	25
6. Proyectos Aprobados Fy Actual				0	9	9
7. Reuniones ( Total )				0	3	3
a. A. A. A				0	1	1
b.Consultores Privados				0	2	2
c. Otras				0	0	0
8. Inspecciones a Proyectos				3	10	13
9. Re-inspecciones a Proyectos				0	0	0

EVALUACION DE INFORMES MENSUALES					
AGO-2016	SECCION REV. PLANOS				
		ACTUAL	ACUM	TOTAL	
1. Asesoramiento Tecnico .		3	25	28	
2. Endosos Preliminares		0	0	0	
3. Adiestramientos		0	0	0	
4. Proyectos Revisados Sometidos		0	34	34	
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		0	25	25	
6. Proyectos Aprobados Fy Actual		0	9	9	
7. Reuniones ( Total )		0	3	3	
a. A. A. A		0	1	1	
b.Consultores Privados		0	2	2	
c. Otras		0	0	0	
8. Inspecciones a Proyectos		0	13	13	
9. Re-inspecciones a Proyectos		0	0	0	
SEP-2016	No.	SECCION REV. PLANOS			
		ACTUAL	ACUM	TOTAL	
1. Asesoramiento Tecnico		3	28	31	
2. Endosos Preliminares		0	0	0	
3. Adiestramientos		0	0	0	
4. Proyectos Revisados Sometidos		0	34	34	
5. Proyectos No Endosados o Pend. Aprobacion (Pend= Proy Rev - Proy. Aprov.)		0	25	25	
6. Proyectos Aprobados Fy Actual		0	9	9	
7. Reuniones ( Total )		0	3	3	
a. A. A. A		0	1	1	
b.Consultores Privados		0	2	2	
c. Otras		0	0	0	
8. Inspecciones a Proyectos		1	13	14	
9. Re-inspecciones a Proyectos		0	0	0	



**RESUMEN DE RESULTADOS BACTERIOLOGICOS**  
**MUESTRAS TOMADAS POR DEPARTAMENTO DE SALUD FY-16**  
**SISTEMAS PUBLICOS DE AGUA**

FECHA	REGION	PRASA (A. A. A.)			COMUNAL PRIVADO			NO COMUNAL & NON-TRANSIENT		
		MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO
Oct-15	METROPOLITANA	20	10	50.00%	1	1	100.00%	0	0	0.00%
	NORTE	150	5	3.33%	15	4	26.67%	8	0	0.00%
	OESTE	66	3	4.55%	18	7	38.89%	1	0	0.00%
	SUR	133	10	7.52%	70	30	42.86%	12	2	16.67%
	ESTE	50	10	20.00%	8	3	37.50%	0	0	0.00%
	TOTAL DEL MES	419	38	9.07%	112	45	40.18%	21	2	9.52%
	TOTAL ACUMULADO	0	0	0.00%	0	0	0.00%	0	0	0.00%
	TOTAL ACTUAL	419	38	9.07%	112	45	40.18%	21	2	9.52%
Nov-15	METROPOLITANA	27	2	7.41%	0	0	0.00%	0	0	0.00%
	NORTE	78	1	1.28%	13	2	15.38%	7	1	14.29%
	OESTE	70	1	1.43%	14	4	28.57%	1	0	0.00%
	SUR	125	7	5.60%	57	23	40.35%	5	0	0.00%
	ESTE	26	3	11.54%	42	15	35.71%	12	0	0.00%
	TOTAL DEL MES	326	14	4.29%	126	44	34.92%	25	1	4.00%
	TOTAL ACUMULADO	419	38	9.07%	112	45	40.18%	21	2	9.52%
	TOTAL ACTUAL	745	52	6.98%	238	89	37.39%	46	3	6.52%
Dec-15	METROPOLITANA	25	2	8.00%	2	1	50.00%	0	0	0.00%
	NORTE	93	6	6.45%	18	7	38.89%	4	0	0.00%
	OESTE	78	3	3.85%	18	8	44.44%	1	0	0.00%
	SUR	131	10	7.63%	44	8	18.18%	4	1	25.00%
	ESTE	36	6	16.67%	4	2	50.00%	2	1	50.00%
	TOTAL DEL MES	363	27	7.44%	86	26	30.23%	11	2	18.18%
	TOTAL ACUMULADO	745	52	6.98%	238	89	37.39%	46	3	6.52%
	TOTAL ACTUAL	1108	79	7.13%	324	115	35.49%	57	5	8.77%
Jan-16	METROPOLITANA	30	0	0.00%	0	0	0.00%	0	0	0.00%
	NORTE	91	5	5.49%	24	7	29.17%	5	1	20.00%
	OESTE	84	1	1.19%	19	5	26.32%	1	0	0.00%
	SUR	131	10	7.63%	69	26	37.68%	10	1	10.00%
	ESTE	45	2	4.44%	10	3	30.00%	2	0	0.00%
	TOTAL DEL MES	381	18	4.72%	122	41	33.61%	18	2	11.11%
	TOTAL ACUMULADO	1108	79	7.13%	324	115	35.49%	57	5	8.77%
	TOTAL ACTUAL	1489	97	6.51%	446	156	34.98%	75	7	9.33%

**RESUMEN DE RESULTADOS BACTERIOLOGICOS**  
**MUESTRAS TOMADAS POR DEPARTAMENTO DE SALUD    FY-16**  
**SISTEMAS PUBLICOS DE AGUA**

FECHA	REGION	PRASA ( A. A. A. )			COMUNAL PRIVADO			NO COMUNAL & NON-TRANSIENT		
		MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO
Feb-16	METROPOLITANA	31	0	0.00%	2	1	50.00%	0	0	0.00%
	NORTE	145	4	2.76%	19	4	21.05%	6	0	0.00%
	OESTE	93	2	2.15%	9	1	11.11%	0	0	0.00%
	SUR	128	10	7.81%	60	25	41.67%	9	1	11.11%
	ESTE	37	0	0.00%	51	11	21.57%	8	1	12.50%
	TOTAL DEL MES	434	16	3.69%	141	42	29.79%	23	2	8.70%
	TOTAL ACUMULADO	1489	97	6.51%	446	156	34.98%	75	7	9.33%
	TOTAL ACTUAL	1923	113	5.88%	587	198	33.73%	98	9	9.18%
Mar-16	METROPOLITANA	30	0	0.00%	0	0	0.00%	0	0	0.00%
	NORTE	68	3	4.41%	17	5	29.41%	6	1	16.67%
	OESTE	86	2	2.33%	9	1	11.11%	0	0	0.00%
	SUR	127	7	5.51%	47	12	25.53%	5	0	0.00%
	ESTE	46	0	0.00%	9	3	33.33%	3	2	66.67%
	TOTAL DEL MES	357	12	3.36%	82	21	25.61%	14	3	21.43%
	TOTAL ACUMULADO	1923	113	5.88%	587	198	33.73%	98	9	9.18%
	TOTAL ACTUAL	2280	125	5.48%	669	219	32.74%	112	12	10.71%
Apr-16	METROPOLITANA	32	2	6.25%	1	0	0.00%	0	0	0.00%
	NORTE	70	0	0.00%	25	9	36.00%	6	0	0.00%
	OESTE	90	4	4.44%	18	5	0.00%	1	0	0.00%
	SUR	76	2	2.63%	45	17	37.78%	9	0	0.00%
	ESTE	35	6	17.14%	12	1	8.33%	2	0	0.00%
	TOTAL DEL MES	303	14	4.62%	101	32	31.68%	18	0	0.00%
	TOTAL ACUMULADO	2280	125	5.48%	669	219	32.74%	112	12	10.71%
	TOTAL ACTUAL	2583	139	5.38%	770	251	32.60%	130	12	9.23%
May-16	METROPOLITANA	31	0	0.00%	0	0	0.00%	0	0	0.00%
	NORTE	162	5	3.09%	27	12	44.44%	6	0	0.00%
	OESTE	84	3		22	10	45.45%	1	0	0.00%
	SUR	113	4	3.54%	63	27	42.86%	13	2	15.38%
	ESTE	46	0	0.00%	57	15	26.32%	11	3	27.27%
	TOTAL DEL MES	436	12	2.75%	169	64	37.87%	31	5	16.13%
	TOTAL ACUMULADO	2583	139	5.38%	770	251	32.60%	130	12	9.23%
	TOTAL ACTUAL	3019	151	5.00%	939	315	33.55%	161	17	10.56%



RESUMEN DE RESULTADOS BACTERIOLOGICOS MUESTRAS TOMADAS POR DEPARTAMENTO DE SALUD FY-16 SISTEMAS PUBLICOS DE AGUA										
FECHA	REGION	PRASA (A. A. A.)			COMUNAL PRIVADO			NO COMUNAL & NON-TRANSIENT		
		MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO	MUESTRAS TOMADAS	MUESTRAS POSITIVAS	% POSITIVO
Jun-16	METROPOLITANA	19	0	0.00%	2	0	0.00%	0	0	0.00%
	NORTE	110	4	3.64%	22	9	40.91%	6	0	0.00%
	OESTE	92	2	2.17%	22	7	31.82%	1	0	0.00%
	SUR	118	4	3.39%	54	15	27.78%	4	0	0.00%
	ESTE	51	3	5.88%	13	2	15.38%	9	0	0.00%
	TOTAL DEL MES	390	13	3.33%	113	33	29.20%	20	0	0.00%
	TOTAL ACUMULADO	3019	151	5.00%	939	315	33.55%	161	17	10.56%
	TOTAL ACTUAL	3409	164	4.81%	1052	348	33.08%	181	17	9.39%
Jul-16	METROPOLITANA	23	1	4.35%	0	0	0.00%	0	0	0.00%
	NORTE	82	1	1.22%	14	5	35.71%	5	1	20.00%
	OESTE	86	1	1.16%	20	5	25.00%	1	0	0.00%
	SUR	115	3	2.61%	50	11	22.00%	6	0	0.00%
	ESTE	29	0	0.00%	11	4	36.36%	1	0	0.00%
	TOTAL DEL MES	335	6	1.79%	95	25	26.32%	13	1	7.69%
	TOTAL ACUMULADO	3409	164	4.81%	1052	348	33.08%	181	17	9.39%
	TOTAL ACTUAL	3744	170	4.54%	1147	373	32.52%	194	18	9.28%
Aug-16	METROPOLITANA	27	0	0.00%	1	1	100.00%	0	0	0.00%
	NORTE	139	10	7.19%	24	10	41.67%	8	1	12.50%
	OESTE	84	1	1.19%	21	4	19.05%	1	0	0.00%
	SUR	120	0	0.00%	64	29	45.31%	12	1	8.33%
	ESTE	46	1	2.17%	48	15	31.25%	10	0	0.00%
	TOTAL DEL MES	416	12	2.88%	158	59	37.34%	31	2	6.45%
	TOTAL ACUMULADO	3744	170	4.54%	1147	373	32.52%	194	18	9.28%
	TOTAL ACTUAL	4160	182	4.38%	1305	432	33.10%	225	20	8.89%
Sep-16	METROPOLITANA	22	0	0.00%	2	1	50.00%	0	0	0.00%
	NORTE	10	0	0.00%	12	1	8.33%	1	0	0.00%
	OESTE	86	0	0.00%	19	5	26.32%	0	0	0.00%
	SUR	122	4	3.28%	50	18	36.00%	8	0	0.00%
	ESTE	37	1	2.70%	9	1	11.11%	1	0	0.00%
	TOTAL DEL MES	277	5	1.81%	92	26	28.26%	10	0	0.00%
	TOTAL ACUMULADO	4160	182	4.38%	1305	432	33.10%	225	20	8.89%
	TOTAL FY-16	4437	187	4.21%	1397	458	32.78%	235	20	8.51%

**DEPARTAMENTO DE SALUD**  
**RESULTADOS DE MUESTRAS TOMADAS**  
**POR LA DIVISION DE AGUA POTABLE FY-16**

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Oct-15	1	BACTERIOLOGIA TOTAL	85	467	11	552	15%	0	552
		A. A. A.	38	381	10	419	9%	0	419
		COMUNAL PRIVADO	45	67	0	112	40%	0	112
		NO-COMUNAL & NON-TRANSIENT	2	19	1	21	10%	0	21
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	7	68	0	75	9%	0	75
		A. A. A.	0	42	0	42	0%	0	42
		COMUNAL PRIVADO	7	26	0	33	21%	0	33
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Nov-15	1	BACTERIOLOGIA TOTAL	59	418	5	477	12%	552	1029
		A. A. A.	14	312	3	326	4%	419	745
		COMUNAL PRIVADO	44	82	2	126	35%	112	238
		NO-COMUNAL & NON-TRANSIENT	1	24	0	25	4%	21	46
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	5	59	0	64	8%	75	139
		A. A. A.	0	41	0	41	0%	42	83
		COMUNAL PRIVADO	5	17	0	22	23%	33	55
		NO-COMUNAL & NON-TRANSIENT	0	1	0	1	0%	0	1

**DEPARTAMENTO DE SALUD**  
**RESULTADOS DE MUESTRAS TOMADAS**  
**POR LA DIVISION DE AGUA POTABLE FY-16**

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Dec-15	1	BACTERIOLOGIA TOTAL	55	405	8	460	12%	1029	1489
		A. A. A.	27	336	5	363	7%	745	1108
		COMUNAL PRIVADO	26	60	2	86	30%	238	324
		NO-COMUNAL & NON-TRANSIENT	2	9	1	11	18%	46	57
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	3	49	0	52	6%	139	191
		A. A. A.	0	40	0	40	0%	83	123
		COMUNAL PRIVADO	3	9	0	12	25%	55	67
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	1	1

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Jan-16	1	BACTERIOLOGIA TOTAL	61	460	6	521	12%	1489	2010
		A. A. A.	18	363	6	381	5%	1108	1489
		COMUNAL PRIVADO	41	81	0	122	34%	324	446
		NO-COMUNAL & NON-TRANSIENT	2	16	0	18	11%	57	75
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	10	68	0	78	13%	191	269
		A. A. A.	0	38	0	38	0%	123	161
		COMUNAL PRIVADO	10	30	0	40	25%	67	107
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	1	1

**DEPARTAMENTO DE SALUD**  
**RESULTADOS DE MUESTRAS TOMADAS**  
**POR LA DIVISION DE AGUA POTABLE FY-16**

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Feb-16	1	BACTERIOLOGIA TOTAL	60	538	1	598	10%	2010	2608
		A. A. A.	16	418	0	434	4%	1489	1923
		COMUNAL PRIVADO	42	99	1	141	30%	446	587
		NO-COMUNAL & NON-TRANSIENT	2	21	0	23	9%	75	98
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	5	65	0	70	7%	269	339
		A. A. A.	0	40	0	40	0%	161	201
		COMUNAL PRIVADO	5	25	0	30	17%	107	137
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	1	1

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Mar-16	1	BACTERIOLOGIA TOTAL	36	417	14	453	8%	2608	3061
		A. A. A.	12	345	11	357	3%	1923	2280
		COMUNAL PRIVADO	21	61	3	82	26%	587	669
		NO-COMUNAL & NON-TRANSIENT	3	11	0	14	21%	98	112
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	3	56	0	59	5%	339	398
		A. A. A.	0	42	0	42	0%	201	243
		COMUNAL PRIVADO	3	13	0	16	19%	137	153
		NO-COMUNAL & NON-TRANSIENT	0	1	0	1	0%	1	2

**DEPARTAMENTO DE SALUD**  
**RESULTADOS DE MUESTRAS TOMADAS**  
**POR LA DIVISION DE AGUA POTABLE FY-16**

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Apr-16	1	BACTERIOLOGIA TOTAL	46	376	61	422	11%	3061	3483
		A. A. A.	14	289	48	303	5%	2280	2583
		COMUNAL PRIVADO	32	69	11	101	32%	669	770
		NO-COMUNAL & NON-TRANSIENT	0	18	2	18	0%	112	130
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	6	73	0	79	8%	398	477
		A. A. A.	0	55	0	55	0%	243	298
		COMUNAL PRIVADO	6	18	0	24	25%	153	177
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	2	2

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
May-16	1	BACTERIOLOGIA TOTAL	81	555	1	636	13%	3483	4119
		A. A. A.	12	424	0	436	3%	2583	3019
		COMUNAL PRIVADO	64	105	1	169	38%	770	939
		NO-COMUNAL & NON-TRANSIENT	5	26	0	31	16%	130	161
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	9	70	0	79	11%	477	556
		A. A. A.	0	51	0	51	0%	298	349
		COMUNAL PRIVADO	9	17	0	26	35%	177	203
		NO-COMUNAL & NON-TRANSIENT	0	2	0	2	0%	2	4

**DEPARTAMENTO DE SALUD**  
**RESULTADOS DE MUESTRAS TOMADAS**  
**POR LA DIVISION DE AGUA POTABLE FY-16**

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Jun-16	1	BACTERIOLOGIA TOTAL	46	477	0	523	9%	4119	4642
		A. A. A.	13	377	0	390	3%	3019	3409
		COMUNAL PRIVADO	33	80	0	113	29%	939	1052
		NO-COMUNAL & NON-TRANSIENT	0	20	0	20	0%	161	181
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	1	60	0	61	2%	556	617
		A. A. A.	0	44	0	44	0%	349	393
		COMUNAL PRIVADO	1	16	0	17	6%	203	220
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	4	4

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Jul-16	1	BACTERIOLOGIA TOTAL	32	411	0	443	7%	4642	5085
		A. A. A.	6	329	0	335	2%	3409	3744
		COMUNAL PRIVADO	25	70	0	95	26%	1052	1147
		NO-COMUNAL & NON-TRANSIENT	1	12	0	13	8%	181	194
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	2	59	0	61	3%	617	678
		A. A. A.	0	45	0	45	0%	393	438
		COMUNAL PRIVADO	2	14	0	16	13%	220	236
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	4	4

**DEPARTAMENTO DE SALUD**  
**RESULTADOS DE MUESTRAS TOMADAS**  
**POR LA DIVISION DE AGUA POTABLE FY-16**

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Aug-16	1	BACTERIOLOGIA TOTAL	73	532	0	605	12%	5085	5690
		A. A. A.	12	404	0	416	3%	3744	4160
		COMUNAL PRIVADO	59	99	0	158	37%	1147	1305
		NO-COMUNAL & NON-TRANSIENT	2	29	0	31	6%	194	225
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	7	63	0	70	10%	678	748
		A. A. A.	0	43	0	43	0%	438	481
		COMUNAL PRIVADO	7	20	0	27	26%	236	263
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	4	4

FECHA	TIPO	MUESTRAS	MUESTRAS POSITIVAS	MUESTRAS NEGATIVAS	MUESTRAS RECHAZADAS	TOTAL DEL MES	PORCIENTO POSITIVO	TOTAL ACUMULADO	TOTAL DEL AÑO
Sep-16	1	BACTERIOLOGIA TOTAL	31	348	4	379	8%	5690	6069
		A. A. A.	5	272	4	277	2%	4160	4437
		COMUNAL PRIVADO	26	66	0	92	28%	1305	1397
		NO-COMUNAL & NON-TRANSIENT	0	10	0	10	0%	225	235
	2	QUIMICO INORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	3	QUIMICO ORGANICO TOTAL	0	0	0	0	0%	0	0
		A. A. A.	0	0	0	0	0%	0	0
		COMUNAL PRIVADO	0	0	0	0	0%	0	0
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	0	0
	4	TURBIDEZ TOTAL	5	59	0	64	8%	748	812
		A. A. A.	0	45	0	45	0%	481	526
		COMUNAL PRIVADO	5	14	0	19	26%	263	282
		NO-COMUNAL & NON-TRANSIENT	0	0	0	0	0%	4	4





Sistemas violadores TTHM				Sistemas violadores HAA5				Sistemas violadores TOC			
			Cant pto en incumplimiento				Cant pto en incumplimiento				
1	Metro	2591	15	1	Metro	2591	10	1	Aguadilla	3293	
2	Aguadilla	3293	3	2	Mayaguez	3283	1	2	Coto Laurel	4524	
3	Ponce	3824	2	3	Aguadilla	3293	1	3	Minillas	5046	
4	Mayaguez	3283	2	4	Guayama	4745	2				
5	Vega Baja	2772	3	5	Juncos	5166	1				
6	Sabana Hoyos	2822	1	6	Jayuya	2712	2				
7	Cabo Rojo	3373	2	7	Maunabo	4815	3				
8	Guayama	4745	4	8	Ciales	2752	3				
9	Juncos	5166	2	9	Coto Laurel	4524	2				
10	Isabela	2672	1	10	Morovis Urb	2762	1				
11	Caguas Sur	5066	2	11	San Lorenzo	5106	1				
12	Lajas	3343	6	12	Guajataca	3772	3				
13	Las Marías	3363	1	13	Toa Vaca	4664	3				
14	Coto Laurel	4524	2	14	Sabana Grande	3333	1				
15	Comerio	4705	3	15	Lares	3872	1				
16	Sabana Grande	3333	2	16	Penuelas	4324	3				
17	Corozal	5487	3	17	Sabana Grande	3192	1				
18	La Plata	4545	3	18	Matuyas	4825	3				
19	Toa Vaca	4664	3	19	Matrullas	4564	2				
20	Gurabo	5096	2	20	Aceitunas	4654	1				
21	Patillas	4835	1								
22	Ciales	2752	1								
23	Guajataca	3772	3								
24	Orocovis	4044	1								
25	Aceitunas	4654	2								
26	Matuyas	4825	3								
27	Maunabo	4815	2								
28	Maricao	3353	1								



**SISTEMAS NON-PRASA**  
**PERSISTENTES MCL-BACT. FY-16**  
**TOTAL=7**

MUNICIPIO	PWS-ID	SISTEMAS
JAYUYA	PR0238012	ZAMAS
JAYUYA	PR0238022	SANTA ROSA
ADJUNTAS	PR0401034	PELLEJAS
PONCE	PR0458194	ANON CARMELITA
PATILLAS	PR0556085	APEADERO
CAGUAS	PR0613106	SECTOR LOZADA Y POZO DULCE
YABUCOA	PR0677216	JACANAS SUR

**SISTEMAS NON-PRASA**  
**INTERMITENTES MCL-BACT. FY-16**  
**TOTAL=47**

MUNICIPIO	PWS-ID	SISTEMAS
SAN SEBASTIAN	PR0351023	SONADOR II
SAN GERMAN	PR0364013	PERICHE
SAN GERMAN	PR0364073	LOMAS DE SANTA MARTA
ADJUNTAS	PR0401024	GUILARTE HELECHALES
ADJUNTAS	PR0401064	COMUNIDAD PALOMO
ADJUNTAS	PR0401144	LIMANI
ADJUNTAS	PR0401234	GARZAS JUNCOS
ADJUNTAS	PR0401284	JUAN GONZALEZ
ADJUNTAS	PR0401294	ASOCIACION ACUEDUCTO REVENTON
COAMO	PR0422014	ASOCIACION RESIDENTE SAN DIEGO
COAMO	PR0422084	COAMO ARRIBA
COAMO	PR0422094	COMUNIDAD MONTERIA
OROCOVIS	PR0455324	SANTO TOMAS DE AQUINO
PENUELAS	PR0457064	ACD. COMUNAL BO. RUCIO (ACBRI)
PONCE	PR0458044	BO. MONTE LLANOS
VILLALBA	PR0476154	VISTA ALEGRE
YAUCO	PR0478064	GUARAGUAO
AIBONITO	PR0505055	CUYON
BARRANQUITAS	PR0510055	CANABON ABAJO
BARRANQUITAS	PR0510065	TABOR
BARRANQUITAS	PR0510145	ACUED. RURAL PALMARITO CINTRON
BARRANQUITAS	PR0510165	COM. DOÑA MAYO (EL LLANO II)
BARRANQUITAS	PR0510225	ACUED. CANABON SECT. EL PARQUE
COMERIO	PR0523055	COMUNIDAD MAISONET
COMERIO	PR0523095	CEDRITO
PATILLAS	PR0556015	MULAS
PATILLAS	PR0556025	BO.REAL
SALINAS	PR0563155	DOW AGROSCIENCE MYCOGEN SALINA
AGUAS BUENAS	PR0604056	SECTOR TIZA
AGUAS BUENAS	PR0604066	JUAN ASECIO
AGUAS BUENAS	PR0604076	COMUNIDAD-MADRIGUERA
AGUAS BUENAS	PR0604086	BAYAMONCITO
CAGUAS	PR0613246	USUARIOS POZO PROFUNDO
CAGUAS	PR0613266	BORINQUEN-PRADERAS
CAGUAS	PR0613366	ACUED. COM. SECTOR LA SIERRA
LAS PIEDRAS	PR0644076	LIJAS
SAN LORENZO	PR0666016	ASOC. VECINO SECTOR OQUENDO
SAN LORENZO	PR0666036	LOS DIAZ
SAN LORENZO	PR0666066	ACUED.COMUNAL SEC. MANUEL DIAZ
SAN LORENZO	PR0666086	CORPORACION SEC. CANTERA

SAN LORENZO	PR0666096	COMUNIDAD SECTOR LOS GOMEZ
YABUCOA	PR0677066	SODOMA
YABUCOA	PR0677076	ACUED. BO. GUAYABOTA
YABUCOA	PR0677196	ACUED. RURAL SECT. EL VEINTE
YABUCOA	PR0677206	ACUE. JACANAS PIEDRAS BLANCA 2
COROZAL	PR0724157	COM. MANA SECTOR FRANK LOZADA
NARANJITO	PR0754107	COMUNIDAD NIEVES SANCHEZ

**SISTEMAS NON-PRASA**  
**VIOLACIONES MCL-BACT. FY-16**  
**TOTAL=121**

MUNICIPIO	FECHA	PWS_ID	SISTEMAS	VIOLACION
ADJUNTAS	10/01/15	PR0401284	JUAN GONZALEZ	MCL-BACT
COAMO	10/01/15	PR0422014	ASOCIACION RESIDENTE SAN DIEGO	MCL-BACT
BARRANQUITAS	10/01/15	PR0510055	CANABON ABAJO	MCL-BACT
BARRANQUITAS	10/01/15	PR0510165	COM. DOÑA MAYO (EL LLANO II)	MCL-BACT
PATILLAS	10/01/15	PR0556085	APEADERO	MCL-BACT
CAGUAS	10/01/15	PR0613246	USUARIOS POZO PROFUNDO	MCL-BACT
JAYUYA	11/01/15	PR0238012	ZAMAS	MCL-BACT
SAN GERMAN	11/01/15	PR0364073	LOMAS DE SANTA MARTA	MCL-BACT
ADJUNTAS	11/01/15	PR0401034	PELLEJAS	MCL-BACT
COAMO	11/01/15	PR0422094	COMUNIDAD MONTERIA	MCL-BACT
PONCE	11/01/15	PR0458194	ANON CARMELITA	MCL-BACT
PATILLAS	11/01/15	PR0556015	MULAS	MCL-BACT
PATILLAS	11/01/15	PR0556025	BO.REAL	MCL-BACT
PATILLAS	11/01/15	PR0556085	APEADERO	MCL-BACT
AGUAS BUENAS	11/01/15	PR0604056	SECTOR TIZA	MCL-BACT
CAGUAS	11/01/15	PR0613106	SECTOR LOZADA Y POZO DULCE	MCL-BACT
CAGUAS	11/01/15	PR0613366	ACUED. COM. SECTOR LA SIERRA	MCL-BACT
SAN LORENZO	11/01/15	PR0666036	LOS DIAZ	MCL-BACT
SAN LORENZO	11/01/15	PR0666066	ACUED.COMUNAL SEC. MANUEL DIAZ	MCL-BACT
SAN LORENZO	11/01/15	PR0666096	COMUNIDAD SECTOR LOS GOMEZ	MCL-BACT
YABUCOA	11/01/15	PR0677066	SODOMA	MCL-BACT
YABUCOA	11/01/15	PR0677076	ACUED. BO. GUAYABOTA	MCL-BACT
JAYUYA	12/01/15	PR0238012	ZAMAS	MCL-BACT
JAYUYA	12/01/15	PR0238022	SANTA ROSA	MCL-BACT
ADJUNTAS	12/01/15	PR0401024	GUILARTE HELECHALES	MCL-BACT
COAMO	12/01/15	PR0422094	COMUNIDAD MONTERIA	MCL-BACT
OROCOVIS	12/01/15	PR0455324	SANTO TOMAS DE AQUINO	MCL-BACT
PONCE	12/01/15	PR0458194	ANON CARMELITA	MCL-BACT
VILLALBA	12/01/15	PR0476154	VISTA ALEGRE	MCL-BACT
BARRANQUITAS	12/01/15	PR0510065	TABOR	MCL-BACT
BARRANQUITAS	12/01/15	PR0510165	COM. DOÑA MAYO (EL LLANO II)	MCL-BACT
PATILLAS	12/01/15	PR0556085	APEADERO	MCL-BACT
CAGUAS	12/01/15	PR0613106	SECTOR LOZADA Y POZO DULCE	MCL-BACT
LAS PIEDRAS	12/01/15	PR0644076	LIJAS	MCL-BACT
SAN LORENZO	12/01/15	PR0666016	ASOC. VECINO SECTOR OQUENDO	MCL-BACT
YABUCOA	12/01/15	PR0677076	ACUED. BO. GUAYABOTA	MCL-BACT
NARANJITO	12/01/15	PR0754107	COMUNIDAD NIEVES SANCHEZ	MCL-BACT
ADJUNTAS	01/01/16	PR0401034	PELLEJAS	MCL-BACT
ADJUNTAS	01/01/16	PR0401064	COMUNIDAD PALOMO	MCL-BACT
ADJUNTAS	01/01/16	PR0401234	GARZAS JUNCOS	MCL-BACT
PONCE	01/01/16	PR0458194	ANON CARMELITA	MCL-BACT

MUNICIPIO	FECHA	PWS_ID	SISTEMAS	VIOLACION
YABUCOA	01/01/16	PR0677076	ACUED. BO. GUAYABOTA	MCL-BACT
YABUCOA	01/01/16	PR0677196	ACUED. RURAL SECT. EL VEINTE	MCL-BACT
YABUCOA	01/01/16	PR0677206	ACUE. JACANAS PIEDRAS BLANCA 2	MCL-BACT
YABUCOA	01/01/16	PR0677216	JACANAS SUR	MCL-BACT
JAYUYA	02/01/16	PR0238022	SANTA ROSA	MCL-BACT
ADJUNTAS	02/01/16	PR0401034	PELLEJAS	MCL-BACT
ADJUNTAS	02/01/16	PR0401064	COMUNIDAD PALOMO	MCL-BACT
ADJUNTAS	02/01/16	PR0401144	LIMANI	MCL-BACT
COAMO	02/01/16	PR0422084	COAMO ARRIBA	MCL-BACT
PONCE	02/01/16	PR0458194	ANON CARMELITA	MCL-BACT
AIBONITO	02/01/16	PR0505055	CUYON	MCL-BACT
BARRANQUITAS	02/01/16	PR0510145	ACUED. RURAL PALMARITO CINTRON	MCL-BACT
YABUCOA	02/01/16	PR0677206	ACUE. JACANAS PIEDRAS BLANCA 2	MCL-BACT
SAN SEBASTIAN	03/01/16	PR0351023	SONADOR II	MCL-BACT
ADJUNTAS	03/01/16	PR0401034	PELLEJAS	MCL-BACT
ADJUNTAS	03/01/16	PR0401144	LIMANI	MCL-BACT
COAMO	03/01/16	PR0422014	ASOCIACION RESIDENTE SAN DIEGO	MCL-BACT
PONCE	03/01/16	PR0458194	ANON CARMELITA	MCL-BACT
BARRANQUITAS	03/01/16	PR0510165	COM. DOÑA MAYO (EL LLANO II)	MCL-BACT
BARRANQUITAS	03/01/16	PR0510225	ACUED. CANABON SECT. EL PARQUE	MCL-BACT
AGUAS BUENAS	03/01/16	PR0604056	SECTOR TIZA	MCL-BACT
AGUAS BUENAS	03/01/16	PR0604066	JUAN ASECIO	MCL-BACT
AGUAS BUENAS	03/01/16	PR0604076	COMUNIDAD-MADRIGUERA	MCL-BACT
CAGUAS	03/01/16	PR0613106	SECTOR LOZADA Y POZO DULCE	MCL-BACT
YABUCOA	03/01/16	PR0677216	JACANAS SUR	MCL-BACT
SALINAS	01/01/16	PR0563155	DOW AGROSCIENCE MYCOGEN SALINA	MCL-BACT
JAYUYA	04/01/16	PR0238012	ZAMAS	MCL-BACT
ADJUNTAS	04/01/16	PR0401034	PELLEJAS	MCL-BACT
PONCE	04/01/16	PR0458194	ANON CARMELITA	MCL-BACT
COMERIO	04/01/16	PR0523055	COMUNIDAD MAISONET	MCL-BACT
SAN LORENZO	04/01/16	PR0666086	CORPORACION SEC. CANTERA	MCL-BACT
JAYUYA	05/01/16	PR0238012	ZAMAS	MCL-BACT
ADJUNTAS	05/01/16	PR0401034	PELLEJAS	MCL-BACT
COAMO	05/01/16	PR0422084	COAMO ARRIBA	MCL-BACT
PENUELAS	05/01/16	PR0457064	ACD. COMUNAL BO. RUCIO (ACBRI)	MCL-BACT
PONCE	05/01/16	PR0458194	ANON CARMELITA	MCL-BACT
BARRANQUITAS	05/01/16	PR0510055	CANABON ABAJO	MCL-BACT
CAGUAS	05/01/16	PR0613106	SECTOR LOZADA Y POZO DULCE	MCL-BACT
CAGUAS	05/01/16	PR0613266	BORINQUEN-PRADERAS	MCL-BACT
YABUCOA	05/01/16	PR0677216	JACANAS SUR	MCL-BACT
JAYUYA	06/01/16	PR0238012	ZAMAS	MCL-BACT
JAYUYA	06/01/16	PR0238022	SANTA ROSA	MCL-BACT
ADJUNTAS	06/01/16	PR0401034	PELLEJAS	MCL-BACT
OROCOVIS	06/01/16	PR0455324	SANTO TOMAS DE AQUINO	MCL-BACT
PONCE	06/01/16	PR0458194	ANON CARMELITA	MCL-BACT
COMERIO	06/01/16	PR0523055	COMUNIDAD MAISONET	MCL-BACT
COMERIO	06/01/16	PR0523095	CEDRITO	MCL-BACT
PATILLAS	06/01/16	PR0556085	APEADERO	MCL-BACT

MUNICIPIO	FECHA	PWS_ID	SISTEMAS	VIOLACION
CAGUAS	06/01/16	PR0613266	BORINQUEN-PRADERAS	MCL-BACT
YABUCOA	06/01/16	PR0677216	JACANAS SUR	MCL-BACT
JAYUYA	07/01/16	PR0238012	ZAMAS	MCL-BACT
JAYUYA	07/01/16	PR0238022	SANTA ROSA	MCL-BACT
SAN GERMAN	07/01/16	PR0364013	PERICHE	MCL-BACT
ADJUNTAS	07/01/16	PR0401034	PELLEJAS	MCL-BACT
PONCE	07/01/16	PR0458194	ANON CARMELITA	MCL-BACT
COMERIO	07/01/16	PR0523055	COMUNIDAD MAISONET	MCL-BACT
PATILLAS	07/01/16	PR0556085	APEADERO	MCL-BACT
SAN LORENZO	07/01/16	PR0666016	ASOC. VECINO SECTOR OQUENDO	MCL-BACT
NARANJITO	07/01/16	PR0754107	COMUNIDAD NIEVES SANCHEZ	MCL-BACT
JAYUYA	08/01/16	PR0238012	ZAMAS	MCL-BACT
JAYUYA	08/01/16	PR0238022	SANTA ROSA	MCL-BACT
SAN SEBASTIAN	08/01/16	PR0351023	SONADOR II	MCL-BACT
ADJUNTAS	08/01/16	PR0401034	PELLEJAS	MCL-BACT
COAMO	08/01/16	PR0422094	COMUNIDAD MONTERIA	MCL-BACT
PENUELAS	08/01/16	PR0457064	ACD. COMUNAL BO. RUCIO (ACBRI)	MCL-BACT
PONCE	08/01/16	PR0458044	BO. MONTE LLANOS	MCL-BACT
PONCE	08/01/16	PR0458194	ANON CARMELITA	MCL-BACT
BARRANQUITAS	08/01/16	PR0510145	ACUED. RURAL PALMARITO CINTRON	MCL-BACT
PATILLAS	08/01/16	PR0556085	APEADERO	MCL-BACT
AGUAS BUENAS	08/01/16	PR0604086	BAYAMONCITO	MCL-BACT
LAS PIEDRAS	08/01/16	PR0644076	LIJAS	MCL-BACT
YABUCOA	08/01/16	PR0677216	JACANAS SUR	MCL-BACT
COROZAL	08/01/16	PR0724157	COM. MANA SECTOR FRANK LOZADA	MCL-BACT
JAYUYA	09/01/16	PR0238022	SANTA ROSA	MCL-BACT
ADJUNTAS	09/01/16	PR0401034	PELLEJAS	MCL-BACT
ADJUNTAS	09/01/16	PR0401064	COMUNIDAD PALOMO	MCL-BACT
ADJUNTAS	09/01/16	PR0401294	ASOCIACION ACUEDUCTO REVENTON	MCL-BACT
COAMO	09/01/16	PR0422084	COAMO ARRIBA	MCL-BACT
PONCE	09/01/16	PR0458194	ANON CARMELITA	MCL-BACT
YAUCO	09/01/16	PR0478064	GUARAGUAO	MCL-BACT



**SISTEMAS NON-PRASA  
PERSISTENTES MR-BACT. FY-16  
TOTAL=134**

MUNICIPIO	PWS-ID	SISTEMA
CANOVANAS	PR0115011	CUBUY-MARINE
CANOVANAS	PR0115031	FINCA LOS GARCIA
ARECIBO	PR0207002	CAMPAMENTO PENAL SABANA HOYOS
ARECIBO	PR0207042	ARROZAL - LOS MUERTOS
CIALES	PR0220032	ACUED. LAS DELICIAS
CIALES	PR0220042	POZO AZUL, CORP.
JAYUYA	PR0238002	ALTURAS PIZA
JAYUYA	PR0238032	ALTURAS DE COLLORES
JAYUYA	PR0238072	SANTA BARBARA
JAYUYA	PR0238082	VEGUITAS GRIPINAS
JAYUYA	PR0238122	SANTA BARBARA II
LARES	PR0242012	LUCAS LUGO
LARES	PR0242032	ACUED. HACIENDA PLANELL
LARES	PR0242042	ACUED. DE LA COMUNIDAD
LARES	PR0242052	ASOC. PRO BIENESTAR MAGUEYES
LARES	PR0242122	COM. LAS CUARENTA
UTUADO	PR0272012	VIVI ABAJO
UTUADO	PR0272032	FINCA WILLIAM LUGO
UTUADO	PR0272082	ACUED. LA GRAMA
UTUADO	PR0272102	HACIENDA RULLAN
UTUADO	PR0272142	COMUNIDAD CHORRERAS
UTUADO	PR0272162	LA CASCADA MILAGROSA
UTUADO	PR0272252	SIST. RURAL GRAULAO
UTUADO	PR0272262	VEGUITA
UTUADO	PR0272272	SALTOS CAGUANA
UTUADO	PR0272282	FINCA CARBONELL
UTUADO	PR0272292	ACUED. COMUNAL LA ESTANCIA
UTUADO	PR0272302	RANCHO MARINA
AGUADA	PR0302013	COMUNIDAD GABINO NEGRON
AGUADA	PR0302023	JAGUEY CHIQUITO
AGUADA	PR0302033	QUEBRADA LARGA
AGUADA	PR0302043	LA CEIBA
AGUADA	PR0302053	COM. AISLADA EN DESARROLLO
AGUADA	PR0302063	COM. CERRO GORDO SEC.EL PARQUE
AGUADA	PR0302083	PROYECTO AGUAS
AGUADILLA	PR0303013	JARDIN DEL ATLANTICO
ANASCO	PR0306023	CORCOBADA
ANASCO	PR0306053	ACUED. RURAL BO HATILLO AÑASCO
ANASCO	PR0306083	HUMATAS DEEP WATER

MUNICIPIO	PWS-ID	SISTEMA
MARICAO	PR0348083	LLANADAS
SAN SEBASTIAN	PR0351023	SONADOR II
SAN GERMAN	PR0364013	PERICHE
SAN GERMAN	PR0364043	COM. RIO PIEDRAS
SAN GERMAN	PR0364063	COMUNIDAD MENDEZ
SAN GERMAN	PR0364073	LOMAS DE SANTA MARTA
SAN SEBASTIAN	PR0367013	ACUD. RURAL GUACIO
SAN SEBASTIAN	PR0367053	ACUEDUCTO RURAL GUADALUPE MART
LAS MARIAS	PR0377023	SECTOR LAGUNA
ADJUNTAS	PR0401014	LAS CRUCES
ADJUNTAS	PR0401164	TANAMA COMUNAL
ADJUNTAS	PR0401364	CRUCERO
COAMO	PR0422074	LA CUESTA
COAMO	PR0422094	COMUNIDAD MONTERIA
COAMO	PR0422104	JAGUEY
GUAYANILLA	PR0431014	PELCHAS
GUAYANILLA	PR0431044	QUEDRADA HONDA
JUANA DIAZ	PR0439034	GUARAGUAO
JUANA DIAZ	PR0439044	PORTILLO - MIRAMAR
OROCOVIS	PR0455014	DAMIAN ABAJO
OROCOVIS	PR0455044	COM. CACAO - LA SAPIA
OROCOVIS	PR0455114	COM. SABANA
OROCOVIS	PR0455134	PELLEJAS-GALLERA I
OROCOVIS	PR0455214	EL PERICO II
OROCOVIS	PR0455234	DAMIAN ARRIBA
OROCOVIS	PR0455294	COM. SALTOS CABRA
OROCOVIS	PR0455314	CORPORACION SALTOS PELLEJA
OROCOVIS	PR0455334	COMUNIDAD LIMONES
PENUELAS	PR0457024	EL MALTILLO
PENUELAS	PR0457044	CORPORACION PRO SALUD Y MEJORA
PENUELAS	PR0457054	PANDURA
PENUELAS	PR0457084	COROZAL
PENUELAS	PR0457094	COREA METRALLA
PENUELAS	PR0457164	COMITE RESIDENTES SEC. BELLEZA
PONCE	PR0458004	LAS MESAS
PONCE	PR0458034	ASOC. CIVICA CULTURAL SOCIOECO
PONCE	PR0458174	SERVICIO DE AGUA
PONCE	PR0458234	EL TESORO
PONCE	PR0458284	ASOC. CIVICA PASTILLO TIBES
PONCE	PR0458294	ACUEDUCTO FAMILIA TORRES
PONCE	PR0458304	LA CARMELITA
PONCE	PR0458314	EL YUMURI
VILLALBA	PR0476054	LA JULITA
VILLALBA	PR0476064	VILLA BLANCA
VILLALBA	PR0476124	VACAS II

MUNICIPIO	PWS-ID	SISTEMA
VILLALBA	PR0476204	SIERRITA
VILLALBA	PR0476224	ACEITUNA I
VILLALBA	PR0476234	ACEITUNA II
VILLALBA	PR0476314	SIERRITA-CAONILLA
VILLALBA	PR0476324	ACEITUNA III
OROCOVIS	PR0476334	COMUNIDAD EL FRIO
YAUCO	PR0478034	LA MONTANA
YAUCO	PR0478044	CERROTE
YAUCO	PR0478094	MOGOTE
YAUCO	PR0478114	SISTEMA DE AGUA CACAO
CAYEY	PR0518105	ASOC. VILLAS GUAVATE
CAYEY	PR0518135	ACUED. BO. CEDRO
CIDRA	PR0521075	COM. AISLADA ALMIRANTE
COMERIO	PR0523025	PALOMAS II
COMERIO	PR0523125	LA PRIETA CENTRO
GUAYAMA	PR0530045	LOS BARROS
MAUNABO	PR0549015	QUEBRADA ARENAS
MAUNABO	PR0549085	TALANTE
MAUNABO	PR0549095	SISTEMA DE AGUA MATUYAS BAJO
PATILLAS	PR0556045	LOS BARROS MARIN
PATILLAS	PR0556115	COMUNIDAD JAGUAL
PATILLAS	PR0556135	MULAS SECTOR SOFIA
AGUAS BUENAS	PR0604066	JUAN ASECIO
AGUAS BUENAS	PR0604086	BAYAMONCITO
AGUAS BUENAS	PR0604096	LAS TORRES ANDINO
AGUAS BUENAS	PR0604176	ACUED. COMUNAL EL LLANO
CAGUAS	PR0613176	SECTOR LAJITAS
CAGUAS	PR0613196	ASOC. DUEÑOS EL PARAISO
CAGUAS	PR0613376	BUENOS AIRES
CAGUAS	PR0613466	COMUNIDAD VILLA VIGIA
CAGUAS	PR0613496	ASOC. RES. PALMAS DEL TURABO
CAGUAS	PR0613536	ACUED. DELGADO Y OTROS
FAJARDO	PR0627016	JUAN DIEGO
GURABO	PR0633106	LOS VAZQUEZ
LAS PIEDRAS	PR0644076	LIJAS
NAGUABO	PR0653056	ACUED. DE LA COM. EL DUQUE
NAGUABO	PR0653066	ACD. LOMAS DEL VIENTO-MAIZALES
RIO GRANDE	PR0661046	BARCELONA
SAN LORENZO	PR0666026	MACANEA / ESPINO
SAN LORENZO	PR0666116	ACUED. COMUNIDAD 18
SAN LORENZO	PR0666126	ACUED. COM. EDEM
SAN LORENZO	PR0666136	COMUNIDAD EMMANUELLI
YABUCOA	PR0677066	SODOMA
COROZAL	PR0724077	COMUNIDAD PALMARITO CENTRO
COROZAL	PR0724097	MANA III

MUNICIPIO	PWS-ID	SISTEMA
COROZAL	PR0724117	COM. ELADIO ANDREU
COROZAL	PR0724127	COMUNIDAD DIVISORIA
NARANJITO	PR0754057	COM. ANONES MAYA
NARANJITO	PR0754067	ANONES CENTRO I
NARANJITO	PR0754127	ACUEDUCTO COMUNIDAD SAN JOSE

**SISTEMAS NON-PRASA**  
**INTERMITENTES MR-BACT. FY-16**  
**TOTAL=37**

MUNICIPIO	PWS-ID	SISTEMA
FORT BUCHANAN	PR0132051	US ARMY, FORT BUCHANAN
SAN JUAN	PR0165041	VA CARIBBEAN HEALTHCARE SYSTEM
ARECIBO	PR0207052	OBSERVATORIO DE ARECIBO
JAYUYA	PR0238132	HOTEL HACIENDA GRIPINAS
VEGA BAJA	PR0274022	EURO CARIBE PACKING COMPANY
ADJUNTAS	PR0401034	PELLEJAS
ADJUNTAS	PR0401294	ASOCIACION ACUEDUCTO REVENTON
COAMO	PR0422014	ASOCIACION RESIDENTE SAN DIEGO
COAMO	PR0422084	COAMO ARRIBA
OROCOVIS	PR0455274	ACUEDUCTO TAITA
PONCE	PR0458264	ACD. COMUNAL RIO CHIQUITO
VILLALBA	PR0476134	VACAS III
VILLALBA	PR0476154	VISTA ALEGRE
YAUCO	PR0478014	BO. RUBIAS
YAUCO	PR0478064	GUARAGUAO
BARRANQUITAS	PR0510125	LA TIZA II
BARRANQUITAS	PR0510145	ACUED. RURAL PALMARITO CINTRON
BARRANQUITAS	PR0510215	COM. BARRANCAS CENTRO
BARRANQUITAS	PR0510225	ACUED. CANABON SECT. EL PARQUE
CAYEY	PR0518075	VECINOS COMUNIDAD LUIS LEBRON
AGUAS BUENAS	PR0604016	LAS CORUJAS
AGUAS BUENAS	PR0604056	SECTOR TIZA
AGUAS BUENAS	PR0604076	COMUNIDAD-MADRIGUERA
CAGUAS	PR0613036	PARC. NUEVAS CAÑABONCITO ACUED
LAS PIEDRAS	PR0644136	ACUED. RURAL MONTONES 4
NAGUABO	PR0653026	COM. RANCHO GRANDE
RIO GRANDE	PR0661056	FOREST SERVICE-EL YUNQUE
SAN LORENZO	PR0666016	ASOC. VECINO SECTOR OQUENDO
SAN LORENZO	PR0666046	QUEMADO I SEC. LOS ORTIZ
SAN LORENZO	PR0666056	LA CUCHILLA
SAN LORENZO	PR0666106	EL CERRO
YABUCOA	PR0677186	ASOCIACION VECINOS
YABUCOA	PR0677196	ACUED. RURAL SECT. EL VEINTE
YABUCOA	PR0677216	JACANAS SUR
COROZAL	PR0724157	COM. MANA SECTOR FRANK LOZADA
COROZAL	PR0724167	JEI QUALITY
NARANJITO	PR0754097	LAS CRUCES





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PUERTO RICO  
Departamento de Salud

October 14, 2015

**BY CERTIFIED MAIL**

Mr. Rafael I. Lebrón Ramos  
Laboratory Director  
ACUALAB de Puerto Rico, Inc.  
EPA Code #PR00015  
Road 924, K.M. 2.8  
P.O. Box 625  
Humacao, Puerto Rico 00661

RE: **Certification of the Microbiology Water Laboratory**

Dear Mr. Lebrón:

Puerto Rico Department of Health (PRDOH) personnel evaluated the referenced facility file. This is in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Acceptable results were obtained in ERA's Performance Evaluation Studies WS-223, WS-225 and WS-227; and MS-135 (NSI Lab. Proficiency Testing Program), analyzed during the previous certification period for the parameter/methodologies evaluated. Based on these results and the acceptable Drinking Water Microbiology Assessment performed on October 24 & 27 of 2014, the PRDOH therefore, is granting the following certification status by parameter/methodology for this laboratory:

<u>PARAMETER</u>	<u>STATUS</u>
Total coliforms [MMO-MUG Colilert, Colilert 18, Quanti-Tray 2000 (SM 9223B)]	Certified
Total coliforms [MTF (SM 9221B)]	Certified
Fecal Coliforms [EC (SM 9221E)]	Certified
E.coli [MMO-MUG Colilert, Colilert 18, Quanti-Tray 2000 (SM 9223B)]	Certified
Heterotrophic Bacteria [HPC (Pour Plate) (SM 9215B)]	Certified

Effective on Wednesday, October 14, 2015.  
The certification is valid until October 21, 2016.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,

Ana C. Ríos Armendáriz, MD  
Secretary of Health

ARA

Cc: Ms. Myrek Núñez  
Mrs. Donna Ringel  
Eng. Javier Torres

PO Box 70184 San Juan, PR 00936-8184  
Tel. (787) 765-2929  
[www.salud.gov.pr](http://www.salud.gov.pr)





February 9, 2016

**BY CERTIFIED MAIL**

Ms. Saira Vázquez  
Laboratory Operation Director  
ALCHEM Laboratories, EPA ID: PR00947  
Microbiology Drinking Water Laboratory  
Altol Chemical Environmental Laboratory, Inc.  
Sabanetas Industrial Park  
P.O. Box 369  
Ponce, Puerto Rico 00715

Dear Ms. Vázquez:

Puerto Rico Department of Health (PRDOH) personnel evaluated ALCHEM Microbiology Drinking Water Laboratory, PR00947, file for certification status update. This is in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6..

Based on the performance of ERA's WS-224 and WS-232 Proficiency Studies evaluation and the on-site audit performed on December 1 & 2, 2015 the PRDOH is granting the following certification status by parameter/methodology for this laboratory:

<b><u>PARAMETER</u></b>	<b><u>STATUS</u></b>
Total coliforms [MMO-MUG (Colilert) (SM 9223B and Quanti-Tray 2000, SM 9223B QT)]	Certified
Total coliforms [MF (SM 9222B)]	Certified
Fecal coliforms [EC (SM 9221E)]	Certified
E.coli [MMO-MUG (Colilert) (SM 9223B) and Quanti-Tray 2000 (SM 9223B QT)]	Certified
E.coli [EC-MUG (SM 9221F)]	Certified
Heterotrophic Bacteria [HPC (Pour Plate) (SM 9215B)]	Certified



Ms. Saira Vázquez  
Laboratory Operations Director  
ALCHEM Micro Drinking Water Lab PR00947  
February 9, 2016  
Page 2

Effective on Wednesday, February 9, 2016.  
This certification is valid until **February 18, 2017**.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext. 3743, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,



**Ana C. Rius Armendariz, MD**  
**Secretary**

ARA

Cc: Mr. Juan Colón  
Ms. Myrek Nunez  
Eng. Javier Torres  
Mrs. Donna Ringel



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Departamento de Salud

November 23<sup>rd</sup>, 2015

**BY CERTIFIED MAIL**

Mr. Andreas Saldivar  
AMA Analytical Services, Inc.  
EPA Lab Code: MD00084  
4475 Forbes Boulevard  
Lanham, MD 20706

Dear Mr. Saldivar:

On November 2015 Puerto Rico Department of Health (PRDOH) personnel evaluated documents submitted by AMA Analytical Services, MD00084, for the certification by reciprocity of the facility. The process is undertaken in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the evaluation of the documents mentioned herein, NY ELAP Accreditation List issued on April 1, 2015, and effective through April 1, 2016, and NYDOH's NY 381 and NY 386 PT Study evaluation reports, the Puerto Rico Department of Health is granting the following certification status listed by parameter/methodology:

**See Enclosed Certification Status List Granted**

Effective on Monday, November 23<sup>rd</sup>, 2015.  
This certification is valid until December 1, 2016.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding this matter.

Sincerely,

**Ana C. Ríos Armendáriz, MD**  
**Secretary**

ARA

Enclosure

cc: Ms. Myrek Núñez  
Eng. Javier Torres  
Mrs. Donna Ringel  
Ms. Dana Nicodemus Hudson

PO Box 70184 San Juan, PR 00936-8184  
Tel. (787) 765-2929  
[www.salud.gov.pr](http://www.salud.gov.pr)



DEPARTAMENTO DE SALUD



June 1<sup>st</sup>, 2016

**BY CERTIFIED MAIL**

Mr. William Deckelmann  
Laboratory Director  
American Water Central Laboratory  
EPA Code #IL00028  
1115 South Illinois Street  
Belleville, IL 62220-6349

**RE: CERTIFICATION STATUS/TESTING LABORATORY**

Dear Mr. Deckelmann:

Puerto Rico Department of Health personnel evaluated American Water Central Laboratory, IL00028, HLCP file for certification renewal. The purpose of this evaluation was to certify the facility by reciprocity in order to conduct chemical source and drinking water analyses, in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the last reviewed listing of accredited analytes issued by the Illinois Environmental Protection Agency of December 14, 2015 (effective December 14, 2015 through October 31, 2016), the performance in ERA's Performance Evaluation (PE) Study WS-237, and the last certification granted on March 2, 2016, the PRDOH is granting the following changes in certification status listed by parameter/methodology:

- DBP Rule

UV 254 by SM5910B

Upgraded to **Certified (C)** because acceptable results were obtained on WS-237. PRDOH-016-6-92, Revision 6.0, sections 1.4.1.1, 1.7, and 3.3.2

Certification status is to continue as recommended on March 2, 2016 for the remaining parameters.

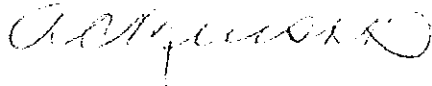
Mr. William Deckelmann  
Laboratory Director  
American Water Central Laboratory  
EPA Code #IL00028  
June 1st, 2016  
Page 2

**See Enclosed Certification Status List Granted**

Effective on Wednesday, June 1st, 2016.  
This certification is valid until March 1, 2017.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding this matter.

Sincerely,



**Ana C. Ríos Armendáriz, MD**  
**Secretary**

ARA

Enclosure

cc: Ms. Myrek Nunez  
Eng. Javier Torres  
Mrs. Donna Ringel



ESTADO LIBRE ASOCIADO DE  
PUERTO RICO  
Departamento de Salud

October 17, 2016

**BY CERTIFIED MAIL**

Mr. Jorge Arrufat  
Executive Vice-President  
Beckton Environmental Laboratories, Inc.  
EPA Code #PR00012  
192 Villa Street  
Ponce, Puerto Rico 00731

Dear Mr. Arrufat:

Puerto Rico Department of Health (PRDOH) personnel evaluated Beckton Environmental Microbiology Drinking Water Laboratory, PR00012 files for certification upgrade due to an additional method approval. This is in accordance to the requirements of the "Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1", and the "Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0".

Based on the performance during the September 2<sup>nd</sup>, 2016 audit, and satisfactory results on the Environmental Resource Associates (ERA) WS-549 Proficiency Study, the PRDOH is granting the following certification status upgrade by parameter/methodology for this laboratory:

<b><u>PARAMETER</u></b>	<b><u>STATUS</u></b>
E. coli-[Enzimatic EC-MUG (SM 9221F)]	Certified
Total coliforms [MTF – LTB followed by BGLB (SM 9221B)]	Certified*
Fecal Coliforms [EC Method (SM 9221E)]	Certified*
Heterotrophic Bacteria [HPC (Pour Plate) (SM 9215B)]	Certified*

\*These parameters remain certified as per December 2015 certification.

This certification shall be in effect immediately and valid until January 1, 2017.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,

Ana C. Ríos Armendáriz, MD  
Secretary

ARA

Enclosure Cc: Mrs. Donna Ringel  
Ms. Myrek Nunez  
Eng. Javier Torres  
Ms. Iris Chévere





GOVERNMENT OF  
PUERTO RICO  
DEPARTAMENTO DE SALUD

January 19, 2016

**BY CERTIFIED MAIL**

Mr. Jorge Arrufat  
Executive Vice-President  
Beckton Environmental Laboratories, Inc.  
EPA Code #PR00012  
192 Villa Street  
Ponce, Puerto Rico 00731

RE: **CERTIFICATION STATUS/TESTING LABORATORY**

Dear Mr. Arrufat:

Puerto Rico Department of Health (PRDOH) personnel evaluated documentation received concerning your facility. The purpose of this evaluation was to certify the facility in order to conduct chemical source and drinking water analyses and determine that the laboratory complied with all Proficiency Testing requirements. The process is undertaken in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the acceptable results obtained on Environmental Resource Associates (ERA) WS-232 Performance Evaluation (PE) Studies, and the last certification granted, by the Puerto Rico Department of Health on December 16, 2015, the PRDOH is granting the following certification status listed by parameter/methodology for this laboratory:

- **Secondary Contaminants**

Total Dissolved Solids at 180°C by SM 2540 C and Total Residual Chlorine by SM 4500Cl G upgraded to **Certified (C)** because acceptable results were obtained on WS-232 PT.

- **DBP Rule**

Total Organic Carbon by SM5310B Upgraded to **Certified (C)** because acceptable results were obtained on WS-232 PT


**See Enclosed Certification Status List Granted**

Effective on Tuesday January 19, 2016

This certification is valid until **January 1<sup>st</sup>, 2017**.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,

  
Ana C. Rius Armendáriz, MD  
Secretary

ARA

Enclosure

Cc: Mrs. Donna Ringel, Ms. Myrek Núñez,  
Eng. Javier Torres, Ms. Iris Chévere

P O BOX 70184, San Juan, PR 00936-8184

Tel.(787)765-2929

[www.salud.gov.pr](http://www.salud.gov.pr)



Departamento de Salud



August 24, 2016

**BY CERTIFIED MAIL**

Mr. Gerardo Sarriera, P.E, M.E.  
President  
Environmental Quality  
Laboratories, Inc. EPA Code #PR00014  
P.O. Box 11458  
San Juan, Puerto Rico 00910-1458

**RE: Certification of the Microbiology Drinking Water Laboratory**

Dear Mr. Sarriera:

Puerto Rico Department of Health (PRDOH) personnel evaluated Environmental Quality Laboratories, Inc. EPA Code #PR00014 file for certification status update. This is in accordance to the requirements of the *"Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1"*, and the *"Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0"*.

Based on the acceptable results obtained on the Environmental Resource Associates (ERA) WS-231 & WS-232 PT Studies, and a satisfactory audit on June 24 & 24, 2016 the PRDOH is granting the following certification status listed by parameter/methodology:

<b><u>PARAMETER</u></b>	<b><u>STATUS</u></b>
<b>Total coliforms:</b> [MMO-MUG-Colilert, Colilert 18 (SM 9223B) and Quanti-Tray 2000- (SM 9223B QT)]	Certified
[MTF (SM 9221B), M-Endo (SM 9222B)]	Certified
<b>Fecal Coliforms:(EC) (SM 9221E)</b>	Certified
<b>E.coli:</b> [MMO-MUG-Colilert, Colilert 18 (SM 9223B) and Quanti-Tray 2000- (SM 9223B)]	Certified
<b>Heterotrophic Bacteria [HPC (Pour Plate) (SM 9215B)]</b>	Certified

Mr. Gerardo Sarrlera, P.E, M.E.  
President  
EQLab, Inc. #PR00014  
August 24, 2016  
Page 2

Effective on Wednesday, August 24, 2016.

The certification period for this laboratory ends on August 31, 2017.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 Ext. 3743/3744, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,



Ana C. Ríos Armendáriz, MD  
Secretary

ARA

Cc: Ms. Myrek Núñez  
Eng. Javier Torres  
Mrs. Donna Ringel  
Mrs. Sonia Pichardo





October 20, 2015

**BY CERTIFIED MAIL**

Mr. Dennis Leeke  
Laboratory Director  
Eurofins Eaton Analytical, Inc.  
EPA Code #CA00006  
750 Royal Oaks Drive, Suite 100  
Monrovia, CA 91016-3629

**RE: CERTIFICATION STATUS/TESTING LABORATORY**

Dear Mr. Leeke:

On October 2015 Puerto Rico Department of Health (PRDOH) personnel evaluated documents submitted by Eurofins Eaton Analytical, CA00006. The purpose of this evaluation was to certify the facility by reciprocity in order to conduct chemical source and drinking water analyses, in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the evaluation of the documents herein mentioned, CA-ELAP Accreditation List issued on February 1, 2015, effective through January 31, 2017 and OR-ELAP Accreditation List issued on January 30, 2015, and effective through January 29, 2016, and ERA's WS-222, WS-228, RAD-100, RAD-102, and NYSDOH's NY-381 PT Studies evaluation reports, the Puerto Rico Department of Health is granting following changes in certification status listed by parameter/methodology:

- **Miscellaneous:**

Corrosivity (calc.) by SM2330B- Included as **Certified (C)** in the Certification Status List because it is within CA-ELAP Accredited Fields of Testing List and OR-ELAP Fields of Accreditation List and acceptable results were obtained on WS-222 and WS-228 PT study for TDS, Alkalinity and Ca.

Cyanide by OIA-1677 - Included as **Certified (C)** in the Certification Status List because it is within CA-ELAP Accredited Fields of Testing List and OR-ELAP Fields of Accreditation List and acceptable results were obtained on WS-222 and WS-228 PT Study



- Metals:

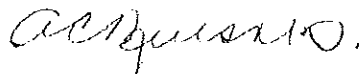
Mercury by EPA 245.1 - Included as **Certified (C)** in the Certification Status List because it is within CA-ELAP Accredited Fields of Testing List and OR-ELAP Fields of Accreditation List and acceptable results were obtained on WS-222 and WS-228 PT study.

**See Enclosed Certification Status List Granted**

This certification shall be in effect immediately and valid until November 10, 2016.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext. 3743, 3744, 3390 or fax (787) 274-7751 if you have questions regarding this matter.

Sincerely,



**Ana C. Rius Armendáriz, MD**  
**Secretary**

ARA

Enclosure

cc: Myrek Núñez  
Javier Torres  
Donna Ringel  
Nilda Cox



ESTADO LIBRE ASOCIADO DE  
PUERTO RICO  
Departamento de Salud

October 8, 2015

**BY CERTIFIED MAIL**

Ms. Ana Colón Acevedo, MT  
Laboratory Director  
Laboratorio Analítico, Inc.  
EPA Code #PR00025  
El Señorial Condominium  
1326 Salud Street, Suite 309-311  
Ponce, Puerto Rico 00717-1689

RE: Certification of the Microbiology Water Laboratory

Dear Ms. Colón:

Puerto Rico Department of Health (PRDOH) personnel evaluated the PR00025, Laboratorio Analítico Microbiology Laboratory file for certification status renewal. This is in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Acceptable results were obtained in ERA's Performance Evaluation Studies WS-224 and WS-225 analyzed during the previous certification period for the parameter/methodologies evaluated. The PRDOH therefore, is granting the following certification status by parameter/methodology for this laboratory:

<u>PARAMETER</u>	<u>STATUS</u>
Total coliforms [MF (SM 9222B), MTF(SM 9221B)]	Certified
Fecal Coliforms [EC (SM 9221E)]	Certified
Heterotrophic Bacteria [HPC (Pour Plate) (SM 9215B)]	Certified

Effective on Thursday, October 8, 2015.  
The certification is valid until October 14, 2016.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,

Ana C. Rius Armendáriz, MD  
Secretary of Health

ARA

Cc: Ms. Myrek Núñez  
Eng. Javier Torres  
Mrs. Donna Ringel



ESTADO LIBRE ASOCIADO DE  
PUERTO RICO  
Departamento de Salud

July 22, 2016

**BY CERTIFIED MAIL**

Ms. Christine MacMillan  
Laboratory Director  
National Testing Laboratories, LTD  
EPA Code #MI00044  
556 S. Mansfield Street  
Ypsilanti, MI 48197

**RE: CERTIFICATION STATUS/TESTING LABORATORY**

Dear Ms. MacMillan:

Puerto Rico Department of Health (PRDOH) personnel evaluated National Testing Laboratories, MI00044, HLCP's file for certification update. The process is undertaken in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on: evaluation of the documents mentioned herein, MIDEQ Certification and Scope issued on October 16, 2015, effective through November 6, 2018, LADOH Accreditation List issued on January 5, 2016, effective through December 31, 2016, Absolute Standards' WS0066 PT Studies evaluation reports, and the last certification granted on May 10, 2016 the Puerto Rico Department of Health is granting the following certification status changes by parameter/methodology for this laboratory:

❖ Secondary Contaminants

Manganese by EPA 200.7- Upgraded to **Certified (C)** because this parameter/methodology is within current LADOH and MIDEQ Accreditation Status Scope and acceptable results were obtained on WS0066 PT sample.

Certification status is to continue as recommended on May 10, 2016 for the remaining parameters/methodologies. Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding this matter.

**See Enclosed Certification Status List Granted**

Effective on Friday July 22, 2016  
This certification is valid until **June 1, 2017**.

Sincerely,

**Ana C. Rius Armendáriz, MD**  
**Secretary**

ARA  
Enclosure

cc: Ms. Myrek Nunez  
Mrs. Donna Ringel  
Eng. Javier Torres

P O BOX 70184, San Juan, PR 00936-8184  
Tel.(787)765-2929  
[www.salud.gov.pr](http://www.salud.gov.pr)





GOVERNMENT OF  
PUERTO RICO  
DEPARTMENT OF HEALTH

May 31<sup>st</sup>, 2016

**BY CERTIFIED MAIL**

Ms Tina Buttermore  
Quality Manager  
Pace Analytical Services – Florida, EPA Code FL01264  
P. O. Box 468 – 8 East Tower Circle  
Ormond Beach, Florida 32175-0468 USA

**RE: CERTIFICATION STATUS/TESTING LABORATORY**

Dear Ms Buttermore:

Puerto Rico Department of Health (PRDOH) personnel evaluated documentation received concerning Pace Analytical Services – Florida, FL01264. The purpose of this evaluation was to certify the facility by reciprocity in order to conduct chemical source and drinking water analyses. This is in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the evaluation of Florida DOH Accreditation List, revised on July 1, 2015 and ERA's WS-234 & WS-236 PT Studies results, and the last Certification Status granted by the Puerto Rico Department of Health on December 10, 2015 the Department of Health is granting the following changes in certification status listed by parameter/methodology:

- **TTHM**

Bromoform and TTHMs by EPA 524.2

Upgraded to **Certified (C)** because acceptable results were obtained on WS-234. PRDOH-016-6-92, Revision 6.0, sections 1.2.2.1, 1.4.7, 1.7 and 3.3.2

- **VOCs**

Upgraded as **Certified (C)** because acceptable results were obtained on WS-234. PRDOH-016-6-92, Revision 6.0, sections 1.2.2.1, 1.4.7, 1.7 and 3.3.2

- **Miscellaneous**

Conductivity by SM 2510B

Upgraded as **Certified (C)** because acceptable results were obtained on WS-234. PRDOH-016-6-92, Revision 6.0, sections 1.2.2.1, 1.4.7, 1.7 and 3.3.2

Ms Tina Buttermore  
Quality Manager  
Pace Analytical Services – Florida, EPA Code FL01264  
May 31st, 2016  
Page 2

Calcium Hardness by SM2340B

**Removed** from PRDOH Certification list as per the request of the laboratory

**See Enclosed Certification Status List Granted**

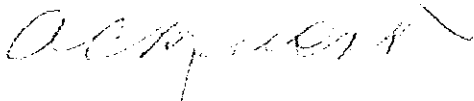
Certification status is to continue as recommended on December 10, 2015 for the remaining parameters. FL01264 must perform the required follow-up WS-PTs for all downgraded parameters/methodologies to recover certification status or to avoid further certification status downgrading. PRDOH-016-6-92, Revision 6.0, sections 1.2.2.1, 1.4.5, 1.4.7, 1.7 & 3.3.2

Also, FL01264 must notify clients of their Provisionally Certified status on all data reports in which provisionally certified methods/parameters are reported. PRDOH-016-6-92, Revision 6.0, section 2.10.3

Effective on Tuesday, May 31st, 2016.  
This certification is valid until January 1<sup>st</sup>, 2017.

Please contact Nancy Sánchez of the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have any questions regarding the laboratory's certification status.

Sincerely,



**Ana C. Ríos Armendáriz, MD**  
**SECRETARY**

ARA

Enclosure

Cc: Donna Ringel  
Myrek Núñez  
Javier Torres  
Lynn Baylor



GOVERNMENT OF  
PUERTO RICO  
DEPARTAMENTO DE SALUD

July 14, 2016

**BY CERTIFIED MAIL**

Mr. Keith Blanchard  
General Manager  
Pace Analytical Services, Inc.  
1638 Roseytown Road  
Suites 2,3 & 4  
Greensburg, PA 15601

Dear Mr. Blanchard:

Puerto Rico Department of Health (PRDOH) personnel evaluated documents submitted by Pace Analytical Services Laboratory, PA01457, for the certification by reciprocity of the facility. The process is undertaken in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the PA-DEP Scope of Accreditation List of April 29, 2016 and the results obtained on RAD-104, CCO is recommending the following PA01457 Reciprocity Certification Status changes:

- Strontium-90 by EPA 905.0

Downgraded to **Provisionally Certified (P)** because it was not performed on RAD-104 PRDOH-016-6-92, Revision 6.0, sections 1.2.2, 1.4.1, 1.7, and 2.10.3

- Tritium by EPA 906.0

Downgraded to **Provisionally Certified (P)** because it obtained Not Acceptable results on RAD-104 and no follow up was performed. PRDOH-016-6-92, Revision 6.0, sections 1.2.2, 1.4.1, 1.7, and 2.10.3

Certification is to continue for remaining parameters/methodologies as recommended on December 1, 2015. PA01457 must perform the required follow-up WS-PTs for all downgraded parameters/methodologies to recover certification status or to avoid further certification status downgrading. Also, PA01457 must notify clients of their Provisionally Certified status on all data reports in which provisionally certified methods/parameters are reported.

**See Enclosed Certification Status List Granted**

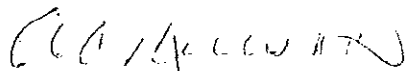


Mr. Keith Blanchard  
Pace Analytical Services  
Pennsylvania, EPA Code PA01457  
July 14, 2016  
Page 2

Effective on Thursday, July 14, 2016.  
This certification shall be valid until **January 1, 2017**.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding this matter.

Sincerely,



Ana C. Rius Armendariz, MD  
Secretary of Health

ARA

Enclosure

cc. Myrek Núñez  
Javier Torres  
Donna Ringel  
Nasreen K. DeRubeis





ESTADO LIBRE ASOCIADO DE  
PUERTO RICO  
Departamento de Salud

April 8, 2016

**BY CERTIFIED MAIL**

Ms. Sarah Cherney  
Pace Analytical Services, Inc.  
EPA ID MN00064  
1700 Elm Street  
Suite 200  
Minneapolis, MN 55414

Dear Ms. Cherney:

Puerto Rico Department of Health (PRDOH) personnel evaluated Pace Analytical Services Laboratory, MN00064 file to update facility certification by reciprocity. The process is undertaken in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the last reviewed listing of accredited analytes issued by the Minnesota Department of Health on December 28, 2015, the performance in Environmental Resource Associates Performance Evaluation PT Studies WS-234 and WS-235, and the last certification granted on January 20, 2016, the PRDOH is granting the following certification status upgrade listed by parameter/methodology for this laboratory:

• **Metals**

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Nickel, Selenium, Silver and Zinc by EPA 200.8 are upgraded to Certified (C) because acceptable results were obtained on WS-234 and WS-235 in compliance with PRDOH-016-6-92, Revision 6.0, sections 1.2.2.1, 1.4.7, 1.7 and 3.3.2 for 2016 certification period.

Certification status is to continue as recommended on January 20, 2016 for the remaining parameters/methodologies. MN00064 must perform the required follow-up WS-PTs for all downgraded parameters/methodologies to recover certification status or to avoid further certification status downgrading. Also, MN00064 must notify clients of their Provisionally Certified status on all data reports in which provisionally certified methods/parameters are reported.

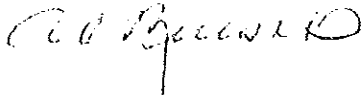
**Ms. Sarah Cherney**  
**Laboratory Director**  
**Pace Analytical Services, Inc.**  
**EPA Code #MN00064**  
**April 8, 2016**  
**Page 2**

**See Enclosed Certification Status List Granted**

Effective on Friday April 8, 2016.  
This certification is valid until January 30, 2017.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding this matter.

Sincerely,



**Ana C. Ríos Armendáriz, MD**  
**SECRETARY**

ARA

Enclosure

cc: Myrek Núñez  
Javier Torres  
Donna Ringel  
Melanie Olíla



ESTADO LIBRE ASOCIADO DE  
PUERTO RICO  
Departamento de Salud

July 14, 2016

**BY CERTIFIED MAIL**

Mr. Todd Baumgartner  
Laboratory Director  
TestAmerica-Savannah Laboratories  
EPA Code #GA00006  
5102 Laroche Ave.  
Savannah, GA 31404 USA

Dear Mr. Baumgartner:

Puerto Rico Department of Health (PRDOH) personnel evaluated the documents received from your facility for reciprocity certification purposes. The process is undertaken in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the GA00006's HLCP file, FLDOH Accredited Analytes List of July 1, 2015 review and the WS0116 and WS0416 PTs studies received on March 7, 2016 and June 6, 2016, respectively, the following certification changes are recommended for reciprocity certification status renewal for GA00006:

- Inorganics

Nitrate by EPA 353.2

Downgraded to **Provisionally Certified (P)** because not acceptable results were obtained on WS0116 and W0416 studies. (PRDOH-016-6-92, Revision 6.0, sections 1.2.2, 1.4.1, 1.7, 2.10.3 and 3.3.)

Certification status is to continue as recommended on January 25, 2016 for the remaining parameters/methodologies. GA00006 must perform the required follow-up WS-PTs for all downgraded parameters/methodologies to recover certification status or to avoid further certification status downgrading.

Also, GA00006 must notify clients of their Provisionally Certified status on all data reports in which provisionally certified methods/parameters are reported.

**See Enclosed Certification Status List Granted**

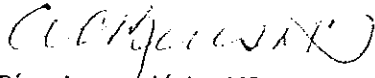


Mr. Todd Baumgartner  
TestAmerica-Savannah Laboratories  
EPA Code #GA00006  
July 14, 2016  
Page 2

Effective on Thursday July 14, 2016.  
This certification is valid until **January 1st, 2017**.

Please contact Nancy Sánchez of the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, 3744 or fax (787) 274-7751 if you have any questions regarding the laboratory's certification status.

Sincerely,



Ana C. Ríos Armendáriz, MD  
Secretary

ARA  
Enclosure

cc: Donna Ringel  
Myrek Núñez  
Javier Torres  
Dianne Mosley  
Andrea Teal



ESTADO LIBRE ASOCIADO DE  
PUERTO RICO  
Departamento de Salud

September 25, 2015

**BY CERTIFIED MAIL**

Mrs. Diana Hernández  
Laboratory Director  
North Coast Superaqueduct Project, EPA ID #PR00975  
P.O. Box 1642  
Sabana Hoyos, Puerto Rico 00688-1642

RE: Certification of the Microbiology Water Laboratory

Dear Mrs. Hernández:

Puerto Rico Department of Health (PRDOH) personnel evaluated the PR00975, NCSP's Microbiology Laboratory (operated by CH2MHILL) file for certification status renewal. This is in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 13, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 5.1.

Based on the file evaluation, August 2015 audit and on the acceptable results that were obtained on 2014 – 2015 certification period-required Performance Evaluation Studies WSM0615(Lot #5210-02) and WSM0615(Lot #5210-14) from Phenova, PRDOH is granting the following certification status by parameter/methodology for this laboratory:

<u>PARAMETER</u>	<u>STATUS</u>
Total coliforms [MMO-MUG-Colilert 18, Quanti-Tray 2000 (SM 9223B)]	Certified
E.coli [MMO-MUG-Colilert 18, Quanti-Tray 2000 (SM 9223B)]	Certified

Effective on Friday, September 25 2015.  
The certification is valid until October 2, 2016.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 ext 3743, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,

Ana C. Ríos Armendáriz, MD  
Secretary

ARA

Cc: Ms. Edna Villanueva  
Eng. Javier Torres  
Mrs. Donna Ringel





GOVERNMENT OF  
PUERTO RICO  
DEPARTAMENTO DE SALUD

February 24, 2016

**BY CERTIFIED MAIL**

Eng. Alberto Lázaro  
Executive Director  
Puerto Rico Aqueduct and Sewers Authority  
EPA Code #PR00001  
P.O. Box 7066  
San Juan, Puerto Rico 00916-7066

**RE: Certification for the Caguas Central *Cryptosporidium* Laboratory, ID# PR00001**

Dear Eng. Lázaro:

Puerto Rico Department of Health (PRDOH) personnel evaluated PRASA's Caguas Central *Cryptosporidium* Laboratory (PR00001) file for certification status. This is in accordance to the requirements of the EPA Supplement 2 to the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-F-12-006, November 2012 and the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1.

Based on the results obtained on the WI State Laboratory of Hygiene *Cryptosporidium* Proficiency Testing Program of October 2015 PT event, the PRDOH is granting the following certification status listed by parameter/methodology:

**PARAMETER**

**STATUS**

Cryptosporidium and Giardia (EPA Method 1623.1)  
Filtration/IM/FA (EPA 816-R-12-001)

Provisionally Certified

Effective on Wednesday, February 24, 2016.  
The certification is valid until **March 1, 2017.**

PR00001 must notify consumers of their Provisionally Certified status on all data reports in which provisionally certified methods/parameters are reported. PRDOH-016-6-92, Revision 6.0 section 2.10.3.

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 Ext. 3743/3744, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,

  
**Ana C. Rius Armendáriz, MD**  
**Secretary**

ARA

Cc: Mr. Jorge Casado  
Ms. Myrek Nunez  
Eng. Javier Torres  
Ms. Donna Ringel  
Ms. Carrie Miller

P O BOX 70184, San Juan, PR 00936-8184  
Tel.(787)765-2929  
[www.salud.gov.pr](http://www.salud.gov.pr)



DEPARTAMENTO DE SALUD



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PUERTO RICO  
Departamento de Salud

January 20, 2016

**BY CERTIFIED MAIL**

Eng. Alberto Lázaro  
Executive Director  
Puerto Rico Aqueduct and Sewers Authority  
EPA Code #PR00010  
P.O. Box 7066  
San Juan, Puerto Rico 00916-7066

**RE: Certification of the Mayagüez Microbiology Drinking Water Laboratory**

Dear Eng. Lázaro:

Puerto Rico Department of Health (PRDOH) personnel evaluated PRASA's Mayagüez Drinking Water Microbiology Laboratory (PR00010) file for certification status update. This is in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the acceptable results obtained on ERA's WS-222, WS-223 and WS-225 PT studies and November 2015 satisfactory audit the PRDOH is granting the following certification status listed by parameter/methodology:

<b><u>PARAMETER</u></b>	<b><u>STATUS</u></b>
Total coliforms [MTF (SM 9221B), MMO-MUG Colilert & Colilert 18 (SM 9223B), and Quanti-Tray 2000 (SM 9223B QT)]	Certified
Fecal Coliforms (EC) (SM 9221E)	Certified
E.coli [MMO-MUG Colilert & Colilert 18 (SM 9223B) and Quanti-Tray 2000 (SM 9223B QT)]	Certified
Heterotrophic Bacteria [HPC (Pour Plate) (SM 9215B)]	Certified

Effective on Wednesday January 20<sup>th</sup>, 2016.  
The certification is valid until **January 31, 2017**.

Eng. Alberto Lázaro  
Executive Director  
P.R. Aqueduct and Sewers Authority  
January 20, 2016  
Page 2

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 Ext. 3743, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,



**Ana C. Ríos Armendáriz, MD**  
**Secretary**

ARA

Cc: Mr. Jorge Casado  
Ms. Myrek Núñez  
Eng. Javier Torres  
Ms. Donna Ringel





April 7, 2016

**By Certified Mail**

Eng. Alberto Lázaro  
Executive Director  
Puerto Rico Aqueduct and Sewers Authority  
EPA Code #PR00004  
P.O. Box 7066  
San Juan, Puerto Rico 00916-7066

**RE: Certification of the Arecibo Microbiology Water Laboratory**

Dear Eng. Lázaro:

Puerto Rico Department of Health (PRDOH) personnel evaluated PRASA's Arecibo Drinking Water Microbiology Laboratory (PR00004) file and performed an on-site assessment for certification status renewal. This is in accordance to the requirements of the Manual for the Certification of Laboratories Analyzing Drinking Water, PRDOH-016-8-90, Revision 14.1, and the Protocol for the Use of Water Supply Performance Evaluation Samples in the Drinking Water Laboratory Certification Program, PRDOH-016-6-92, Revision 6.0.

Based on the acceptable results obtained on the Environmental Resource Associates (ERA) WS-226, WS-227 and WS-228 PT Studies and the last certification from April 14, 2015, the PRDOH is granting the following certification status listed by parameter/methodology:

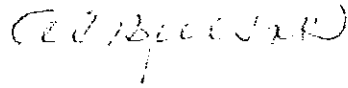
<b><u>PARAMETER</u></b>	<b><u>STATUS</u></b>
Total coliforms [MTF (SM 9221B), MMO-MUG (Colilert & Colilert 18) (SM 9223B), and Quanti-Tray 2000 (SM 9223B QT)]	Certified
Fecal Coliforms (EC) (SM 9221E)	Certified
E.coli [MMO-MUG (Colilert & Colilert 18) (SM 9223B), and Quanti-Tray 2000 (SM 9223B QT)]	Certified
Heterotrophic Bacteria [HPC (Pour Plate) (SM 9215B)]	Certified

Effective on Thursday, April 7, 2016.  
The certification is valid until April 15, 2017.

Eng. Alberto Lázaro  
Executive Director  
P.R. Aqueduct and Sewers Authority  
April 7, 2016  
Page 2

Please contact Nancy Sánchez at the Hygiene Laboratories Certification Program at (787) 765-2929 Ext. 3743, fax (787) 274-7751 if you have questions regarding to the laboratory's certification status.

Sincerely,



**Ana C. Ríos Armendáriz, MD**  
**Secretary**

ARA

Cc: Mr. Jorge Casado  
Ms. Myrek Nunez  
Eng. Javier Torres  
Mrs. Donna Ringel

**GOVERNMENT OF PUERTO RICO  
PUERTO RICO DEPARTMENT OF HEALTH  
PUERTO RICO PUBLIC HEALTH LABORATORIES  
CALL BOX 70184  
SAN JUAN, PUERTO RICO 00936-8184**

**AGENCY: PUERTO RICO DEPARTMENT OF HEALTH**

## **QUALITY MANAGEMENT PLAN**

**FY 2015, FY 2016 and FY 2017**

**FOR**

**PRDOH PWSS Program**

**And**

**All Primacy State Laboratories and Programs that  
Participate in an EPA Approved QA Program  
As per  
EPA ORDER CIO 2105.0**

**DATE: FY 2015, FY 2016 and FY 2017**

**CONCURRENCES:**

- (1) NAME : Melba A. Avilés Avilés, MS/Chemist  
TITLE : Interim Director – Hygiene Laboratories Certification Program  
SIGNATURE : Melba Avilés Avilés Date March 20, 2015
- (2) NAME : Myriam Garcia Negron, MS, MT, ASCP  
TITLE : Interim Director – Puerto Rico Public Health Laboratories  
SIGNATURE : Myriam Garcia Negron Date March 6, 2015
- (3) NAME : Javier O. Torres, PE  
TITLE : Director – Public Water Supply Supervision Program  
SIGNATURE : Javier O. Torres Date 10 March 2015
- (4) NAME : Carlos M. Carazo Gilot, DYM  
TITLE : Assistant Secretary – Environmental Health Auxiliary Secretariat  
SIGNATURE : Carlos M. Carazo Gilot Date 5 March 2015

**APPROVAL:**

- (1) NAME : Ana C. Rius Armendáriz, M.D.  
TITLE : Secretary of Health  
SIGNATURE : Ana C. Rius Armendáriz Date March 26/15
- (2) NAME : Donna Ringel  
TITLE : EPA Region II – Quality Assurance Officer  
SIGNATURE : Donna Ringel Date 6/4/15
- (3) NAME : Sumy Cherukara Kevin Kubik  
TITLE : Regional Quality Assurance Manager  
SIGNATURE : Kevin Kubik Date 6/8/15
- RA COMMENTS : \_\_\_\_\_  
\_\_\_\_\_



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Departamento de Salud



Estado Libre Asociado de Puerto Rico  
Departamento de Salud

# **PWSS Program Chemical Surveillance Monitoring Quality Assurance Project Plan**

**September 2016**

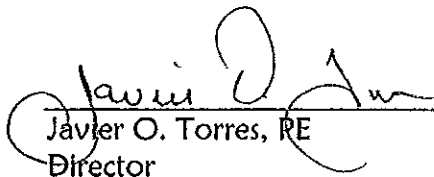
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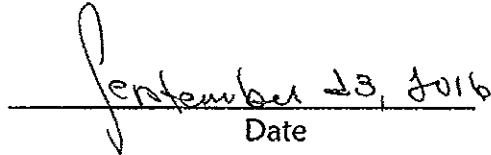
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Quality Assurance Project Plan

Organization Name: Puerto Rico Department of Health

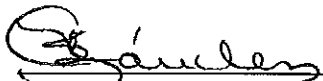
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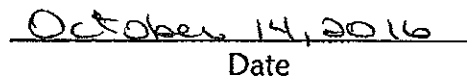
Prepared by:

  
\_\_\_\_\_  
Javier O. Torres, PE  
Director  
Public Water Supply Supervision Program  
PR Department of Health

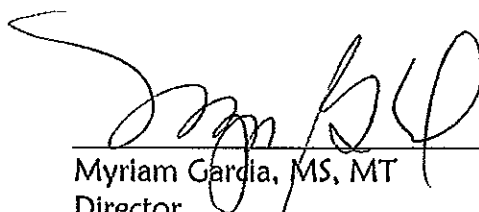
  
\_\_\_\_\_  
September 23, 2016  
Date


Approved by:

  
\_\_\_\_\_  
Nancy Sánchez, MS, MT, RM(NRCM)  
Quality Assurance Officer  
Interim Director  
Hygiene Laboratories Certification Program  
PR Department of Health

  
\_\_\_\_\_  
October 14, 2016  
Date

Concurrence:

  
\_\_\_\_\_  
Myriam García, MS, MT  
Director  
PR Public Health Laboratories  
PR Department of Health

  
\_\_\_\_\_  
Oct 17 2016  
Date



Carlos Carazo Gilot, DVM  
Assistant Secretary  
Environmental Health Auxiliary Secretariat  
PR Department of Health

17 Oct 2016

Date



Ana C. Rius Armendáriz, MD  
Secretary  
PR Department of Health

10/18/16

Date

**PWSS Program  
Microbiology Surveillance Monitoring  
Quality Assurance Project Plan**

**September 2016**



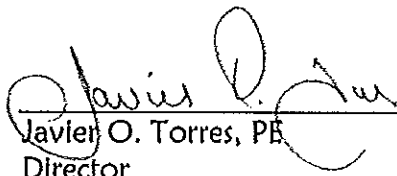
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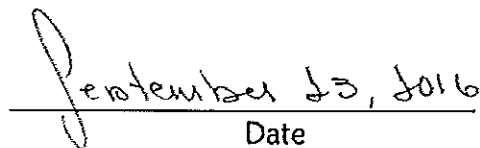
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Monitoring Quality Assurance Project Plan

Organization Name: Puerto Rico Department of Health

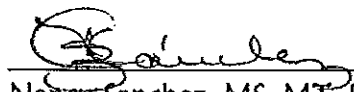
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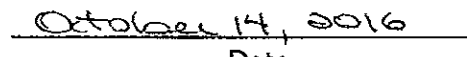
Prepared by:

  
Javier O. Torres, PE  
Director  
Public Water Supply Supervision Program  
PR Department of Health

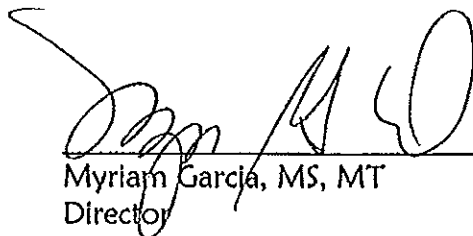
  
September 23, 2016  
Date

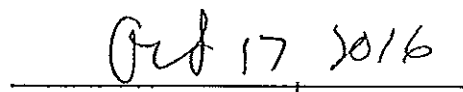
Approved by:

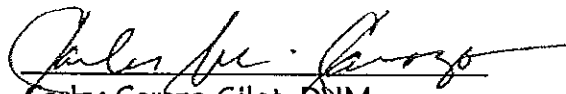
  
Nancy Sanchez, MS, MT, RM (NRCM)  
Quality Assurance Officer  
Interim Director  
Hygiene Laboratories Certification Program  
PR Department of Health

  
October 14, 2016  
Date

Concurrences:

  
Myriam Garcia, MS, MT  
Director  
PR Public Health Laboratories  
PR Department of Health

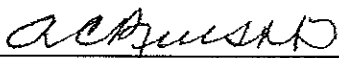
  
Oct 17 2016  
Date



Carlos Carazo Gilot, DVM  
Assistant Secretary  
Environmental Health Auxiliary Secretariat  
PR Department of Health

17 Oct. 2016

Date



Ana C. Ríos Armendáriz, MD  
Secretary  
PR Department of Health

10/19/16

Date



## ***MODEL PARTNERSHIP AGREEMENT***

[Puerto Rico Department of Health]  
U.S. Environmental Protection Agency Region [2]

PARTNERSHIP AGREEMENT for SUPPORTING the IMPLEMENTATION of the  
4th CYCLE of the UNREGULATED CONTAMINANT MONITORING RULE (UCMR4)

### **BACKGROUND**

The goal of the Unregulated Contaminant Monitoring Regulation (UCMR) under the Safe Drinking Water Act (SDWA) is to obtain reliable data concerning the occurrence of unregulated contaminants in drinking water as one of the key steps in the EPA's regulatory determination process. Since the EPA, States and Tribes are partners in the implementation of any future drinking water regulations associated with these contaminants, we have a joint and mutual interest in obtaining the best data possible through the UCMR monitoring program.

The proposed UCMR4 published on December 11, 2015 would require all public water systems (PWSs) serving more than 10,000 people, and a representative sample of 800 PWSs serving 10,000 or fewer people, to conduct Assessment Monitoring for "List 1" chemicals during a 12-month period from January 2018 to December 2020. As under previous cycles of the UCMR, the EPA would continue to coordinate and pay for the monitoring required for those selected PWSs serving 10,000 or fewer people. As proposed, UCMR4 does not include any contaminants to be monitored in either a Screening Survey (List 2) or a Pre-Screen Testing (List 3). If the final UCMR4 does not include a Screening Survey or Pre-Screen Testing, then the State will not need to perform any tasks in this Partnership Agreement pertaining to either the List 2 or List 3 monitoring.

Over the history of the UCMR program, most States have assisted the EPA in implementing the UCMR monitoring through a Partnership Agreement (PA). Consistent with prior UCMR cycles, monitoring under the revised UCMR is expected to be carried out in a "direct implementation" manner, with the Office of Ground Water and Drinking Water (OGWDW) leading that implementation. Unlike most other drinking water rules, States do not need to adopt this rule or carry it out as part of their primacy responsibilities. States do, however, have the option of participating in UCMR implementation and are encouraged to do so. The specific PA responsibilities that a State can adopt are reflected in the PA. State collaboration with the EPA will help ensure that the program is effective and the resulting national drinking water occurrence data represents the best available information on unregulated contaminants to support future decision making. The PA is a convenient way for the OGWDW, the EPA Regional Offices and the States to establish a clear understanding of the extent to which the State will participate in the preparation for and the implementation of the UCMR4.

### **PURPOSE**

This PA is intended to support the implementation of the UCMR4 by identifying the key implementation activities which will be performed by the State. While States do not have

primacy for implementing the UCMR4, the Association of State Drinking Water Administrators (ASDWA) and the EPA encourage States to assist to the extent feasible. The principal group within the OGWDW charged with implementation responsibility for the UCMR is the Technical Support Center (TSC), located in Cincinnati, Ohio. A key role of the EPA Regional Office is to facilitate the establishment of the PAs with their States that identify what each State will do to support the monitoring program. The extent to which the State engages is at the State's discretion. If a State wishes to participate in the UCMR implementation, the State will, at a minimum, be committing to the review of the initial State Monitoring Plan. This role is addressed in Part 1, Necessary Responsibilities, of the attached agreement. The State may elect to assume additional responsibilities over and above those identified in Part 1. These other responsibilities are identified in Part 2, Supplemental Responsibilities. These are to be determined through discussions between the Regions and each State.

The EPA asks that this PA be completed and signed by the partnering State and returned to your EPA UCMR Regional contact by **June 30, 2016** to allow time for proper planning. The EPA likewise asks that if the State does not intend to partner to advise their EPA UCMR Regional contact by this date. If the EPA does not receive a PA or a notification of the State's intent by that date, TSC will take this as an indication that the TSC will be fully implementing UCMR4 in the State.

### RATIONALE

The basis for this PA is the expressed desire of many States to support the EPA's receipt of high quality data through such participation. Specifically, many States have indicated their desire to work with PWSs concerning their monitoring responsibilities and have generally expressed a willingness to assist the EPA (to different degrees) in implementing the UCMR.

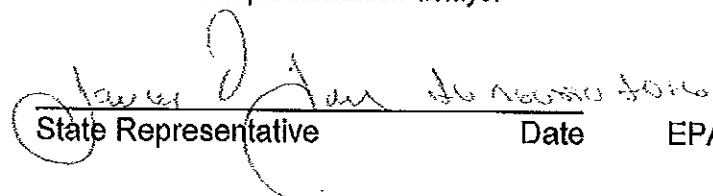
### LIMITATIONS

All commitments made in this PA are subject to the availability of resources. The parties agree that they will bear their own cost of participation in the activities addressed by the PA.

This PA does not create any right or benefit, substantive or procedural, against the parties, their officers or employees, or any other person.

### MODIFICATION NOTIFICATION

If for whatever reason the State will not be able to complete any task agreed to in this PA, the State should notify the TSC and the relevant EPA Regional Office as soon as possible to avoid confusion and implementation delays.

			
State Representative	Date	EPA Region Representative	Date

## UCMR IMPLEMENTATION: ROLES AND RESPONSIBILITIES

The tasks listed below identify activities that may be carried out by the State under the PA. The list is organized in two parts that address, respectively, "necessary" and "supplemental" activities. If a State desires to enter into a PA, the State, at a minimum, will be committing to review the SMP (described in Part 1), with the option to provide assistance with the other responsibilities in Part 2. Part 2 has important functions that may be most effectively performed by the State; the EPA encourages State support with some or all of these functions.

Please place a mark next to each activity for which the State will take responsibility.

### Part 1 - Necessary Responsibilities

1. ☒ Review the draft State Monitoring Plan (SMP) to verify proper classification of public water systems (PWSs). The SMP is a comprehensive list of water systems, including: 1) all large PWSs (serving >10,000 persons), and EPA-selected small PWSs (serving <10,001 persons) that must conduct Assessment Monitoring; and possibly 2) all very large PWSs and EPA-selected small and large PWSs that must conduct Screening Surveys. The SMP must be returned to the TSC within 75 days of receipt of the draft SMP.

### Part 2 - Supplemental Responsibilities

2. ☒ Provide (or confirm) the proper PWS inventory data (PWSID, facility ID and sample point ID) for each PWS to use for reporting their monitoring data in the Safe Drinking Water Accession and Review System (SDWARS). This may include initially providing the complete inventory and correcting or adding facilities and/or sample points, when necessary. The inventory list must be returned to the TSC within 90 days of receipt of the draft SMP.
3. ☐ Review representative sampling plans for reduced monitoring submitted by PWSs with groundwater sources that have multiple entry points to the distribution system. Inform the EPA of the State's approval, modification, or disapproval. **If the TSC does not receive your recommendation within 60 days of your receiving the PWS's proposed representative groundwater wells monitoring plan, then the TSC will pass judgement on the plan.**

4. ☒ Notify large PWSs of their Assessment Monitoring and/or Screening Survey responsibilities within 30 days of the final rule publication. Within 30 days of notification, provide the TSC with a list of the notified PWSs. **If the TSC does not receive your list of notified PWSs within 60 days of the final rule publication, then the TSC will notify large systems in your State.**
5. ☒ Notify small PWSs that are part of the final SMP of their Assessment Monitoring or Screening Survey responsibilities within 30 days of the final rule publication. Within 30 days of notification, provide the TSC with a list of the notified PWSs. **If the TSC does not receive your list of notified PWSs within 60 days of the final rule publication, then the TSC will notify small systems in your State.**
6. ☐ Notify the TSC at least four months before UCMR4 monitoring is to begin that the State will perform the sampling for the small PWSs in the SMP for Assessment Monitoring and/or Screening Surveys. **If the TSC does not hear from you by this date, then the PWS must perform the sampling.**
7. ☐ If the State is going to collect samples for small PWSs, review and, as needed, adjust the monitoring schedule for the small PWSs in the draft SMP. **If this schedule changes after the draft SMP is returned, the State will notify the TSC immediately of the schedule change so that kits will be sent at the proper time; otherwise the PWS must follow the originally assigned schedule.**
8. ☐ If the State is going to collect samples for large PWSs, review and, as needed, adjust the monitoring schedule for the large PWSs in the draft SMP. **If this schedule changes after the draft SMP is returned, the State will notify the TSC immediately of the schedule change so that the SDWARS can be modified to reflect the proper schedule; otherwise the PWS must follow the originally assigned schedule.**
9. ☒ Assist the EPA in ensuring compliance through follow-up contact with PWSs concerning their monitoring responsibilities and concerning instances of noncompliance.